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EN

IN-DASH APP RECEIVER

ICS-X7

• OWNER'S MANUAL
Please read before using this equipment.

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Operating Instructions

WARNING

⚠ WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

INSTALL THE PRODUCT CORRECTLY SO THAT THE DRIVER CANNOT WATCH TV/VIDEO UNLESS THE VEHICLE IS STOPPED AND THE EMERGENCY BRAKE IS APPLIED.

It is dangerous for the driver to watch TV/Video while driving a vehicle. Installing this product incorrectly enables the driver to watch TV/Video while driving. This may cause a distraction, preventing the driver from looking ahead, thus causing an accident. The driver or other people could be severely injured.

DO NOT WATCH VIDEO WHILE DRIVING.

Watching the video may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.

Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE.

MINIMIZE DISPLAY VIEWING WHILE DRIVING.

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT DISASSEMBLE OR ALTER.

Doing so may result in an accident, fire or electric shock.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

KEEP SMALL OBJECTS SUCH AS SCREWS OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

Failure to do so may result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS.

Doing so may cause heat to build up inside and may result in fire.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.

Use for other than its designed application may result in fire, electric shock or other injury.

⚠ CAUTION

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Center for repairing.

⚠ NOTICE

Product Cleaning

Use a soft dry cloth for periodic cleaning of the product. For more severe stains, please dampen the cloth with water only. Anything else has the chance of dissolving the paint or damaging the plastic.

Temperature

Be sure the temperature inside the vehicle is between +45°C (+113°F) and 0°C (+32°F) before turning your unit on.

Maintenance

If you have problems, do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

Installation Location

Make sure the ICS-X7 will not be installed in a location subjected to:

- Direct sun and heat
- High humidity and water
- Excessive dust
- Excessive vibrations

Operation of some of the functions of this unit is very complex. Because of this, it was deemed necessary to place these functions into a special screen. This will restrict operation of these functions to times when the vehicle is parked. This ensures the focus of the driver's attention will be on the road and not on the ICS-X7. This has been done for the safety of the driver and passengers.
Setup operations cannot be made if the car is moving. The car must be parked and the parking brake must be engaged for the procedure described in the Owner's Manual to be valid. The warning "Unable to operate while driving." will be displayed if any attempts are made to perform these operations while driving.

- *The ICS-X7 draws minimal current even when its power switch is turned off. If the switched power (ignition) lead of the ICS-X7 is connected directly to the positive (+) post of the vehicle's battery, the battery may be discharged.*
  An SPST (Single-Pole, Single-Throw) switch (sold separately) can be added to simplify this procedure. Then, you can simply place it in the OFF position when you leave the vehicle. Turn the SPST switch back ON before using the ICS-X7. For connecting the SPST switch, refer to the "Connection Diagram of SPST Switch (sold separately)" (page 67). If the power (ignition) lead is unswitched, it must be disconnected from the battery post should the vehicle be left unused for an extended period of time.

Protecting the USB connector

- Only an iPod/iPhone, USB memory or Mobile Phone can be connected to the USB connector on this unit. Correct performance using other USB products cannot be guaranteed.
- If the USB connector is used, be sure to use only the supplied connector cable with the unit. A USB hub is not supported.
- Depending on the connected USB memory device, the unit may not function or some functions may not be performed.
- The audio file format that can be played back on the unit is MP3/WMA/AAC.
- The video file format that can be played back on the unit is DivX®.
- Artist/song name, etc., can be displayed. Certain, special characters may not be correctly displayed.

⚠ CAUTION

Alpine accepts no responsibility for lost data, etc., even if data, etc., is lost while using this product.

On Handling USB Memory

- This unit can control a memory storage device that supports the USB Mass Storage Class (MSC) protocol. Playable audio file formats are MP3, WMA and AAC.
- USB memory function is not guaranteed. Use USB memory according to the terms of agreement. Read the USB memory Owner's Manual thoroughly.
- Avoid usage or storage in the following locations:
  Anywhere in the car exposed to direct sunlight or high temperatures.
  Anywhere the possibility of high humidity or corrosive substances are present.
- Fix the USB memory in a location where driver operation will not be hindered.
- USB memory may not function correctly at high or low temperature.
- Use only certified USB memory. Note that even certified USB memory, may not function correctly depending on its type or state.
- Depending on the settings of the USB memory type, memory state or encoding software, the unit may not play back or display properly.
- Files protected by DRM (Digital Rights Management), cannot be played back on this unit. These include AAC formatted files purchased from the iTunes Store and WMA or other files with some form of copyright protection.
- USB memory may take time to start playback. If there is a particular file other than audio in the USB memory, it may take considerable time before the file is played back or searched.
- The unit can play back "mp3," "wma" or "m4a" file extensions.
- Do not add the above extensions to a file other than audio data. This non-audio data will not be recognised. The resulting playback may contain noise that can damage speakers and/or amplifiers.
- It is recommended to back up important data on a personal computer.
- Do not remove the USB device while playback is in progress. Change application to something other than USB, then remove the USB device to prevent possible damage to its memory.

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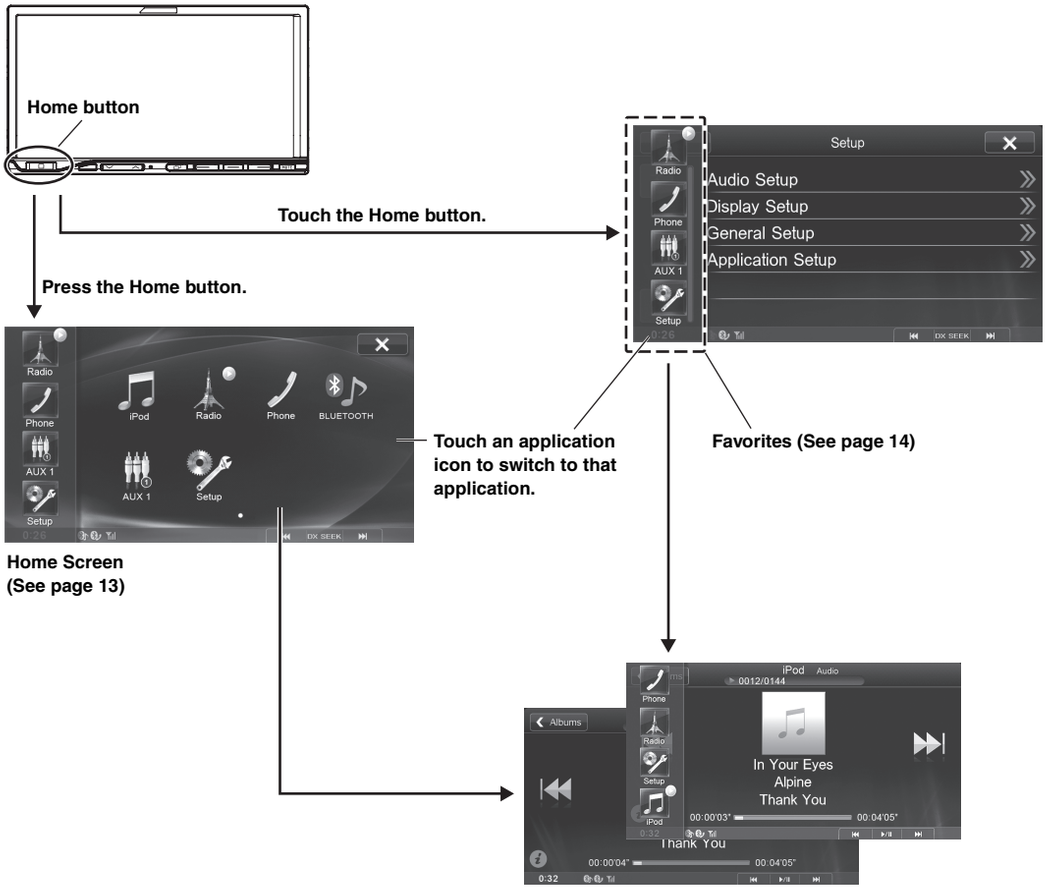
Features

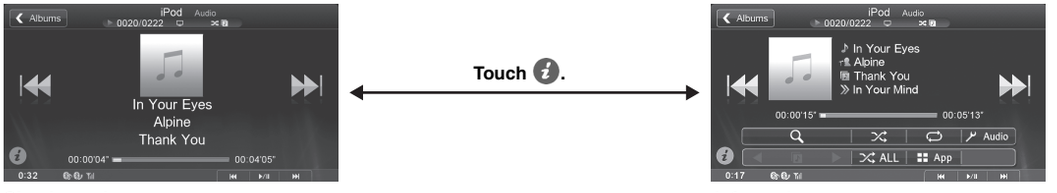
Home Screen and Favorites

You can easily switch to the application of your choice from the Home Screen or Favorites. The Home Screen displays icons for applications usable with this unit. Favorites is a shortcut function that displays up to 4 icons on the screen you are using. The icon layout is customisable for your convenience.



Switching Between Simple Mode and Info Mode

The media screen display has two options to select from, Simple or Info mode. Info mode has additional operation buttons in the display.



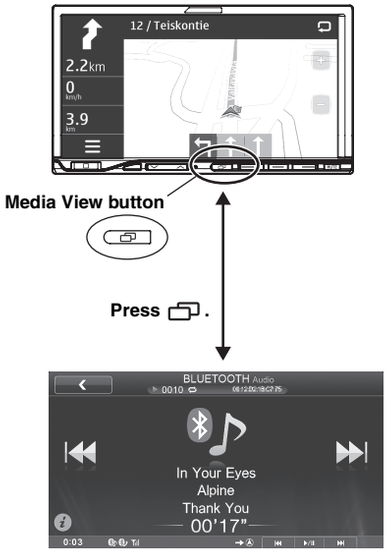
Simple mode

Info mode

Using the Media View button

You can switch between the Navigation screen and the main screen for the current media source with just one touch.

<When the Navigation screen is displaying>

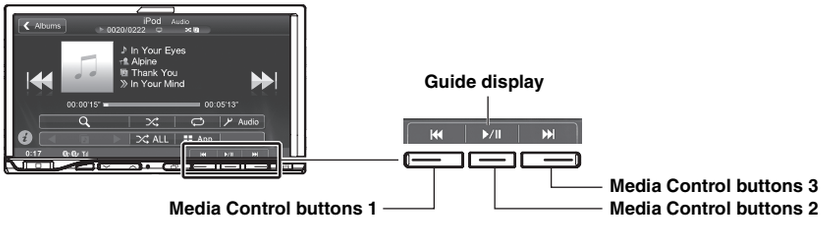


Media screen

Using the Media Control buttons

For operations like moving up or down between songs, in addition to using the operation buttons displayed on the screen, you can also use the Media Control buttons on the unit itself. This allows you to press a Media Control button to select a song even if the main screen for the media is not being displayed.

The operation of the Media Control buttons may change depending on the media you are using. A guide will display on the screen to show which switch controls what function. In this owner's manual, when the Media Control button guide and the onscreen button display are the same, only onscreen button operations are described.



Easy-to-touch UP/DOWN switch

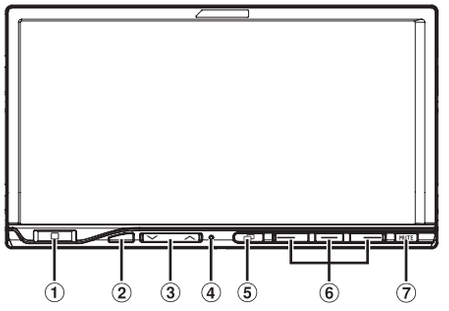
UP/DOWN buttons are displayed with large arrows on either side of the screen.

Getting Started

Accessory List

- ICS-X7.....1
- Power cable.....1
- Mounting sleeve 1
- Bracket key.....2
- Flush head screw (M5x8) 6
- Screw (M5×8).....8
- Face plate.....1
- AUX/PRE OUT cable 1
- Remote Out/Reverse cable 1
- USB extension cable (I type).....1
- Microphone.....1
- Owner's Manual .....1 set

Location of Controls



① **Home/⏻ button**
Touch the Home button to call up Favorites.
Press the Home button to call up the Home Screen.
Press and hold for at least 5 seconds to turn the power off.

② **Remote Sensor**
Point the remote control transmitter towards the remote sensor within a range of 2 metres.

③ **∨/∧ button**
Press to adjust the volume.

④ **RESET switch**
The system of this unit is reset.

⑤ **(Media View) button**
- When using the Navigation system:
  Pressing toggles between the Navigation screen and Audio/Visual screen.
- When not using the Navigation system:
  If ✕ appears on the screen, pressing the button will close the screen in the same way as touching [✕].

⑥ **Media Control button 1/2/3**
This action varies according to the Audio/Visual application. (Track Up/Down, PLAY/PAUSE, Fast reverse/Fast forward, etc)

⑦ **MUTE button**
Activating this function will instantly lower the volume level by 20 dB.

Optional Remote Control Interface Box
This unit is operable using the vehicle's secondary radio controls. An Alpine Remote Control Interface Box (optional) is required. For details, contact your Alpine dealer.

Controllable with Remote Control
This unit can be controlled with an optional Alpine remote control. For details, consult your Alpine dealer. Point the optional remote control transmitter at the remote control sensor.

About the button descriptions used in this Owner's Manual
The buttons found on the face of the unit are expressed in bold (e.g. **Home/⏻**). The buttons found on the touch-screen display are shown in bold within brackets, [ ] (e.g. **[✕]**).

Touch Operation

You can operate the system by using the touch panel on the screen.

- *Be sure to touch the onscreen button lightly with the pad of your finger to protect the display.*
- *If you touch a button and there is no reaction, remove your finger from the display once, and try again.*
- *Onscreen buttons that cannot be operated appear dull in colour.*

Common onscreen buttons

[<]: Returns to the previous screen. Depending on the function, this button may cancel the operations performed on the screen.
[✕]: Closes the window.

Turning Power On or Off

Some of this unit's functions cannot be performed while the vehicle is in motion. Be sure to stop your vehicle in a safe location and apply the parking brake, before attempting these operations.

1 Turn the ignition key to the ACC or ON position.
The system turns on.
- *When turned on, the system displays the last mode screen that was displayed before the ignition key was turned off. For example, if the unit is in radio mode when ignition is turned off, it will remain in radio mode when ignition is turned back on.*

2 Press and hold the Home/⏻ button for at least 5 seconds to turn the power off.

- *The unit can be turned on by pressing any button.*
- *The ICS-X7 is a precision device. Careful handling of the unit should provide you with years of trouble-free operation.*

Turning the System On

With the Alpine system, when the ignition key is turned to ACC or ON, the opening screen will be automatically displayed.

1 When the system is used for the first time, the language selection menu is displayed. There are 15 languages to choose from. Touch [▲] or [▼] to scroll the list, and then touch the desired language.

- *You can also scroll through lists by touching the screen and sliding your finger up and down.*

2 Touch [OK].
The radio screen is displayed.

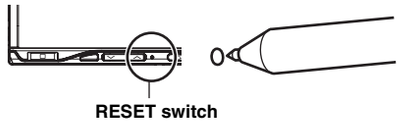
- *Some of this unit's functions cannot be performed while the vehicle is in motion. Be sure to stop your vehicle in a safe location and apply the parking brake before attempting these operations.*

Initial System Start-Up

Be sure to press the RESET switch when using the unit for the first time, after changing the car battery, etc.

1 Turn off the unit power.

2 Press RESET switch with a ballpoint pen or similar pointed object.



Adjusting the Volume

Adjust the volume by pressing ∨ or ∧.
Volume decreases/increases continuously by pressing and holding ∨ or ∧.
Volume: 0 - 35

Lowering Volume Quickly

Activating the Audio Mute function will instantly lower the volume level by 20 dB.

1 Press the MUTE button to activate the mute mode.
The audio level will decrease by about 20 dB.
- *While muting, the volume indicator flashes.*

2 Pressing MUTE button again will bring the audio back to its previous level.

Using the Home Screen

The Home Screen displays icons for applications that can be operated with this device. You can easily display the Home Screen and switch to the application of your choice.

Displaying the Home Screen

1 **Press the Home button.**
The Home screen is displayed. The Home button will blink slowly.

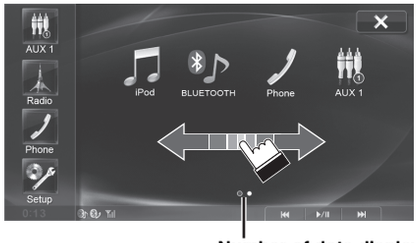
Touching an icon on the Home screen will switch to the screen for the selected application.

2 **Press Home button again to deactivate Home screen.**

- *is displayed on the selected icon.*
- *Icons on the Home screen are not displayed or their enabled/disabled indication is not displayed according to the setting and/or connection status of the external devices.*

Switching the Home Screen Page

To view the previous page or next page, slide your finger left or right while touching the background (avoiding the application icons).



Number of dots display

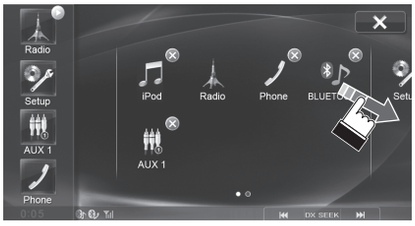
- *The dots on the lower of the screen indicate the number of pages and the page currently displayed.*
  Number of dots: page number
  White dot: current page

Customising the Home Screen

Rearranging the Application Icons

1 **Touch and hold an application icon for at least 1 second.**
The display will change to Icon Rearrangement mode. ⊗ will display on the icon.

2 **Drag and drop the icon to the desired location.**



The icon moves.

3 **Touch [×] to return to the normal mode.**

- *To move to the previous or next page, drag the icon to the left or right edge of the Home screen. Hold your finger down for at least 1 seconds after fixing the icon on the destination page to move it. Dragging an icon to the right edge of the screen on the last page will display a new page.*

Deleting an Application Icon

1 **Touch and hold an application icon for at least 1 second.**
The display changes to Icon Rearrangement mode. "⊗" will display on the icon.

2 **Touch [⊗] on the icon.**
The confirmation dialog screen appears.

3 **Touch [OK].**
The selected icon is deleted.

- *The Radio and Setup icons cannot be deleted.*
- *If you delete a device icon, the connection for that device will be automatically set to OFF.*
- *After deleting the icon for a device, if you set the connection of the device to ON, or reconnect the device, the icon will reappear on the Home screen.*

Using the Favorites Menu

Favorites is a shortcut function that lets you easily switch to the application of your choice. Favorites menu displays on your current screen and can register up to 4 icons for applications you use frequently.

Display the Favorites Menu

1 Touch the Home button.
The Favorites menu is displayed.

Favorites menu

Touching an icon on the Favorites menu will switch to the screen of the selected application.

2 Touch Home button again to deactivate Favorites menu.

Customising the Favorites Menu

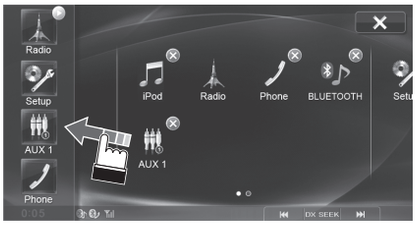
You can customise Favorites in Rearrangement mode on the Home screen.

Rearranging Application Icons

1 Press the Home button.
The Home screen is displayed. The Home button will blink slowly.

2 Touch and hold an application icon for at least 1 second.
The display will change to Icon Rearrangement mode.

3 Touch an icon in Favorites or displayed on the Home screen and drag and drop to the desired location in Favorites.



- *If you drag icons already inside the Favorites menu, you can rearrange their order. If you drag an icon displayed on the Home screen to the Favorites menu, it will replace an icon in the Favorites menu.*

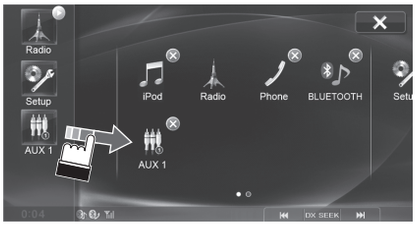
4 Touch [×] to return to the normal mode.

Deleting an Application Icon from the Favorites Menu

1 Press the Home button.
The Home screen is displayed. The Home button will blink slowly.

2 Touch and hold an application icon for at least 1 second.
The display will change to Icon Rearrangement mode.

3 Drag and drop the icon you want to delete to an area outside Favorites.
Icons you drag outside the Favorites menu will be deleted.



4 Touch [×] to return to the normal mode.

Switching Between Simple Mode & Info Mode

You can select between the Simple mode and Info mode for the main screen display for audio/visual applications. To display all the operation buttons, switch to Info mode.

Touch [ⓘ].
The screen changes to Simple mode or Info mode.

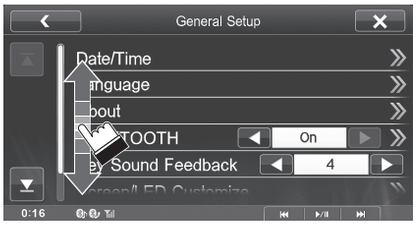
■ Display example for Simple mode

■ Display example for Info mode

Selecting an Item in a List

To scroll through a list, perform the following operations.

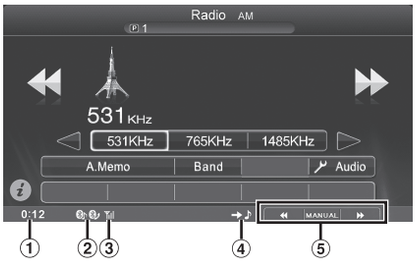
Touch the screen and slide your finger up and down.
The screen will scroll along with your finger movement.
Also, you can touch [▲] and [▼].



- *After touching the screen, move your finger away from the screen before dragging and that item will be selected.*

About the Indicator Display

The Indicator Bar at the bottom of the screen displays various types of information, like the current time.



① The clock display
You can switch between the 12 hour display and 24 hour display options (See page 25).

② Lights up when connected to a BLUETOOTH compatible device.
: BLUETOOTH connection to audio device
: BLUETOOTH connection to Hands Free Phone
Blinks while reconnecting. Does not display when connection is set to OFF.

③ Indicates the signal strength level of the connected BLUETOOTH compatible device.
Displayed when BLUETOOTH setting is ON.

0	1	2	3	No Service
				No Service

④ (Media View) button guide
Indicates the action that occurs when the (Media View) button is pressed.
→♪ :Audio/Visual screen
→ :Navigation screen
→ :Phone screen*

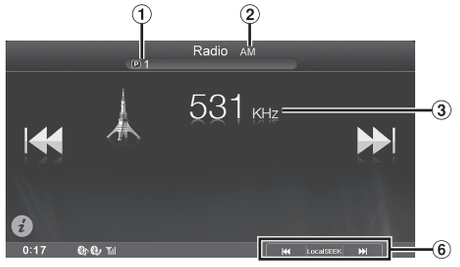
* *Displayed when transmitting or during a call.*

⑤ Media Control button guide
Displays the operation icon (guide) corresponding to the currently selected audio/video application (source).
Indicates the respective action for when Media Control button 1, 2 or 3 is pressed.

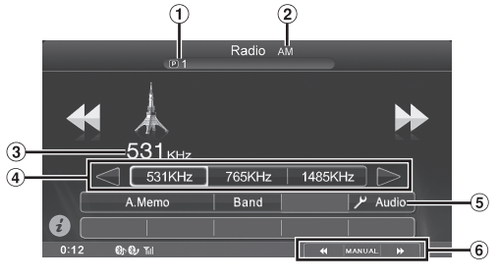
Radio

■ **Display example for Radio main screen**

Simple mode



Info mode



① Preset No. Indicator
② Band display
③ Frequency display
④ Preset button
⑤ Audio Setup button (See "Audio Setup Operation" on page 18)
⑥ Media Control button guide (See page 10)

• *For instructions on switching between Simple mode and Info mode, refer to "Switching Between Simple Mode & Info Mode" (page 15).*

Listening to the Radio

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Radio].**
The radio mode is activated and the display changes to the Radio mode screen.

3 **Touch [Band] to select the desired radio band.**
Each touch changes the bands as follows:

FM-1 → FM-2 → AM → FM-1

4 **Press Media Control button 2 to choose the tuning mode.**

DX SEEK Local SEEK MANUAL

|◀◀ ▶▶| |◀◀ ▶▶| ◀◀ ▶▶

- *There are two modes you can select for auto tuning, DX and Local:*
- *DX (Distance) mode;*
  Both strong and weak stations will be tuned in.
- *Local mode;*
  Only strong stations will be tuned in.
  The initial setting is DX.
- *If "PRESET" appears in the Media Control button 2 guide, press **Media Control button 2** repeatedly until a tuning mode is displayed.*

5 **Touch [|◀◀], [▶▶|] or [◀◀], [▶▶] to change the radio frequency up or down respectively.**
In manual mode, touch and hold to change the frequency continuously.

• *Operations can be performed in the same way by pressing **Media Control buttons 1** or **3**. Refer to "Using the Media Control buttons" (page 10).*

Presetting Stations Manually

1 **Tune in a desired radio station you wish to store in the preset memory by manual or automatic seek tuning.**

2 **Touch and hold any one of the preset buttons for at least 2 seconds.**
The selected station is stored.
- *To toggle between preset buttons 1-3 and preset buttons 4-6, touch [◀] or [▶] on either side of the preset buttons.*

3 **Repeat the procedure to store up to 5 other stations onto the same band.**
To use this procedure for other bands, simply select the desired band and repeat the procedure.

A total of 30 stations can be stored in the preset memory (6 stations for each band; FM1, FM2 or AM).

• *If a preset memory has already been set in the same preset number, it will be cleared and the new station will be memorised.*

Presetting Stations Automatically

The tuner can automatically seek and store 6 strong stations in the selected band in order of signal strength.

After selecting the desired band, touch [A.Memo].
The tuner automatically seeks and stores 6 strong stations into the preset buttons in order of signal strength.
When automatic storing has completed, the station stored in the preset 1 is selected.

- *If no stations are stored, the tuner will return to the original station you were listening to before the automatic storing procedure began.*
- *You can cancel this process by touching **[A.Memo]** while the tuner is automatically seeking stations. Cancelling will return the tuner preset to the previous setting.*

Tuning to Preset Stations

You can tune in the preset stations in memory on either band using its preset number.

1 Touch [Band] repeatedly until the desired band is displayed.

2 Touch any one of the preset buttons that has a station stored to it.

Or, when “PRESET” appears in the guide after pressing Media Control button 2 repeatedly, touch [◀], [▶], or press Media Control button 1 (◀) or Media Control button 3 (▶).

The preset station is received.

- *To toggle between preset buttons 1-3 and preset buttons 4-6, touch [◀] or [▶] on either side of the preset buttons.*
- *You can check the selected Preset No. via the Preset No. Indicator.*

Setup

Audio Setup

Audio Setup Operation

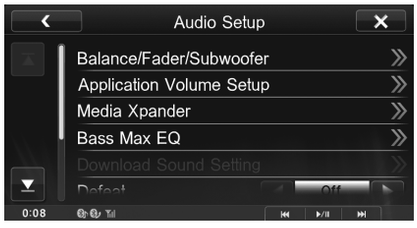
The parking brake must be engaged to access the Setup screen. Attempting to access this screen while driving will display the warning-Unable to operate while driving.

The following steps 1 to 5 are common operations to each "Setting item" of Audio Setup. Refer to each section for details.

1 **Touch [Setup] on the Home screen.**
The Setup main screen is displayed.

2 **Touch [Audio Setup].**
The Audio Setup screen appears.

3 **Select the desired item.**
If "≫" appears, there is next hierarchy. Touch the desired item.
If "≫" does not appear, proceed to step 4.



Setting items: Balance/Fader/Subwoofer / Application Volume Setup / Media Xpander / Bass Max EQ / Download Sound Setting / Defeat / Time Correction / X-OVER / Parametric EQ

4 **Touch [◄] or [►] etc., to change its setting.**

5 **Touch [×] to return to the main application screen.**
Touch [<] to return to the previous screen.

- *Immediately after changing the Audio Setup (while the system is writing data automatically) do not turn the ignition key to OFF. Otherwise, the settings may not be changed.*
- *For details on how to scroll through the list, refer to "Selecting an Item in a List" (page 15).*

Setting the Balance/Fader/Subwoofer

[Balance/Fader/Subwoofer] is selected on the Audio setup menu in step 3. Refer to "Audio Setup Operation" (page 18).

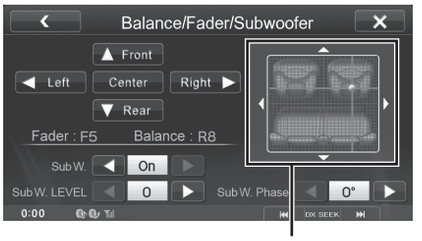


Image area

Adjusting the Balance/Fader

Touch the desired point within the image area. Or touch [▲ Front] [▼ Rear] [◄ Left] [Right ►].

Balance: L15 to R15
Fader: F15 to R15

- *To reset to the initial setting (Balance: 0, Fader: 0), touch [Center].*

Turning Subwoofer ON/OFF

If an optional subwoofer is connected to the unit, make the following setting.

Setting item: SubW.
Setting contents: On / Off (Initial setting: Off)

Adjusting the Subwoofer Level

You can set the Subwoofer level when a Subwoofer is connected.

Setting item: SubW. LEVEL
Setting contents: 0 to 15 (Initial setting: 0)

- *If the Subwoofer setting is "Off," the setting cannot be set.*

Setting the Subwoofer Phase

The subwoofer output phase is toggled Subwoofer Normal (0°) or Subwoofer Reverse (180°).

Setting item: SubW. Phase
Setting contents: 0° / 180° (Initial setting: 0°)

- *If the Subwoofer setting is "Off," the setting cannot be set.*

Setting the Volume for Each Application

[Application Volume Setup] is selected on the Audio setup menu in step 3. Refer to "Audio Setup Operation" (page 18).
The volume level for each application can be adjusted.

Setting item: Radio / Compress Media / MirrorLink / iPod Music / iPod Video / AUX / AUX3 / BLUETOOTH Audio
Setting contents: -14 to +14 (Initial setting: 0)

- *Settable applications differ depending on the connected device and settings.*

Setting the MX (Media Xpander)

[Media Xpander] is selected on the Audio setup menu in step 3. Refer to "Audio Setup Operation" (page 18).
MX (Media Xpander) makes vocals or instruments sound distinct regardless of the music source. The FM radio, USB memory and iPod/iPhone, will be able to reproduce the music clearly even in cars with a lot of road noise.

Setting item: Media Xpander

1 Touch [On] of "ALL MX Off/On" in the MX setup screen.

2 Touch any of [Off] [▂▯▯] [▂▄▯] [▂▄▆].

Application	Level			
	OFF	1	2	3
FM	Off	▂▯▯	▂▄▯	▂▄▆
Compress Media	Off	▂▯▯	▂▄▯	▂▄▆
MirrorLink	Off	▂▯▯	▂▄▯	▂▄▆
AUX/AUX3	Off	Compress Media	Movie	Music

- *The MX setting can be performed only when a source is currently selected.*
- *iPod/USB Audio/DivX®/BLUETOOTH Audio correspond to MX Compress Media.*

MX FM
The medium to high frequencies become more clear, and produces well balanced sound in all the bands.

MX Compress Media
This corrects information that was omitted at the time of compression. This reproduces a well-balanced sound close to the original.

MX MirrorLink
The medium to high frequencies become more clear, and produces well balanced sound in all the bands.

MX AUX/AUX3
Choose the MX mode (Compress Media, Movie, or Music) that corresponds to the media connected.

- *To cancel MX mode for all music applications, set MX to "Off" in step 1.*
- *Each music applications, such as FM radio and AUX can have its own MX setting.*
- *Setting to MX sets MX mode of each music applications to "Off."*
- *There is no MX mode for AM radio.*
- *The function is inoperable when Defeat is set to "On."*

Equalizer Presets (Bass Max EQ)

[Bass Max EQ] is selected on the Audio setup menu in step 3. Refer to "Audio Setup Operation" (page 18).
10 typical equalizer settings are preset at the factory for a variety of musical source material.

Setting item: Bass Max EQ
Setting contents: FLAT (Initial setting) / POPS / ROCK / NEWS / JAZZ / ELECTRICAL DANCE / HIP HOP / EASY LISTENING / COUNTRY / CLASSICAL

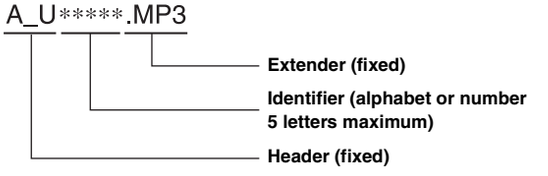
- *Only one type can be set to ON.*
- *When Bass Max EQ setting is edited, a Download Sound setting is disabled.*
- *When Bass Max EQ is set, the interlinked Parametric EQ settings are also changed. We recommend storing Parametric EQ settings in the Preset in advance.*
- *The Bass Max EQ setting can be configured when Defeat is "Off."*

Download Sound Setting

[Download Sound Setting] is selected on the Audio setup menu in step 3. Refer to "Audio Setup Operation" (page 18).
Using a USB memory device, the sound settings downloaded from the ALPINE website can be used to configure Time Correction, X-OVER and Parametric EQ settings.

Setting item: Download Sound Setting

The file name of download data shall be "A_U***.MP3."**



- *Save the setting data in the root folder.*
- *For details about service and procedures of download, see ALPINE's web site.*

1 Touch [Download Sound Setting].
Setting data files are displayed in a list with a maximum of 5 items.

2 Touch the desired file.

3 Touch [OK].
The downloaded setting values are set as the Time Correction/X-OVER/Parametric EQ settings, and at the same time saved as Preset3, respectively.

- *When no USB memory is connected, the "Download Sound Setting" function is not available.*
- *If Preset3 was already saved for Time Correction/X-OVER/Parametric EQ, the data will be overwritten.*

Setting Defeat

[Defeat] is selected on the Audio setup menu in step 3. Refer to "Audio Setup Operation" (page 18).
If Defeat is "On," MX, Bass Max EQ, Download Sound Setting and Parametric EQ functions are turned OFF. This disables any settings made for these functions.

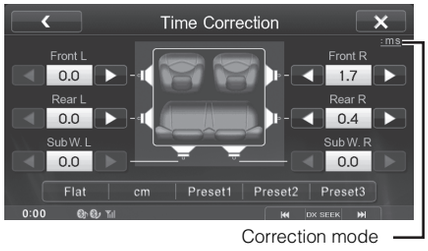
Setting item: Defeat
Setting content: Off / On (Initial setting: Off)

Adjusting the Time Correction (Time Correction)

[Time Correction] is selected on the Audio setup menu in step 3. Refer to "Audio Setup Operation" (page 18).
Before performing the following procedures, refer to "About Time Correction" (page 22).

Setting item: Time Correction

1 Touch [msec] or [cm] to select mode for making adjustments.
Each time you touch, the onscreen button and correction mode changes.



Correction mode

msec: Adjust time.
cm: Adjust listening position and distance from each speaker.

2 Touch [◄] or [►] for each speaker to adjust the time or distance.
0.0msec to 9.9msec (0.1msec/step)
0.0cm to 336.6cm (3.4cm/step)
- *If the sum total of the setting values of all the speakers exceeds 20msec or 680cm, the settings may not function normally.*

3 To store the adjusted setting value, touch and hold [Preset1], [Preset2], or [Preset3].

- *Touch **[Flat]** to set all values to 0.0.*
- *If the Subwoofer setting is "Off," the Subwoofer setting cannot be edited (Refer to page 18).*

Calling the Time Correction Value

Calling the pre-set time correction value.

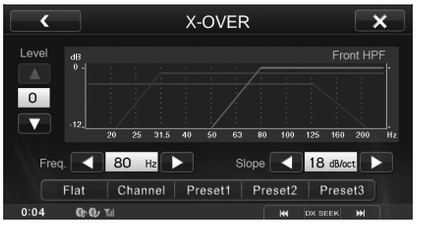
Touch [Preset1], [Preset2], or [Preset3] on the time correction screen.
The setting stored in the Preset will be recalled.

Adjusting the Crossover Settings (X-OVER)

[X-OVER] is selected on the Audio setup menu in step 3. Refer to "Audio Setup Operation" (page 18).
Before performing the following procedures, refer to "About the Crossover" (page 23).

Setting item: X-OVER

1 Touch [Channel] to select the channel.
Each time you touch, the channel switches.



- *The channel being adjusted is displayed in red.*

→ Front HPF → Rear HPF → Subw. LPF →

2 Adjust the crossover to your preference.

Selecting the Cut-Off Frequency

Touch [◄] or [►] of "Freq.," then select the cut-off frequency.

Setting contents: 20 / 25 / 31.5 / 40 / 50 / 63 / 80 (Initial setting) / 100 / 125 / 160 / 200 Hz

Adjusting the Slope

Touch [◄] or [►] of "Slope," then adjust the HPF or LPF slope.

Setting contents: 0 (Initial setting) / 6 / 12 / 18 / 24 dB/oct

Adjusting the Level

Touch [▼] or [▲] of "Level," then adjust the HPF or LPF level.

Setting contents: -12 to 0 dB (Initial setting: 0)

3 Repeat steps 1 to 2 to make adjustment to the other channels.

4 To store the adjusted setting value, touch and hold [Preset1], [Preset2], or [Preset3].

- *Touch **[Flat]** to initialise all values.*
- *If the Subwoofer setting is "Off," the Subwoofer setting cannot be edited (Refer to page 18).*
- *While adjusting the X-OVER you should consider the frequency response of the connected speakers.*

Calling the X-OVER adjusted value

Calling the pre-set X-OVER adjusted value.

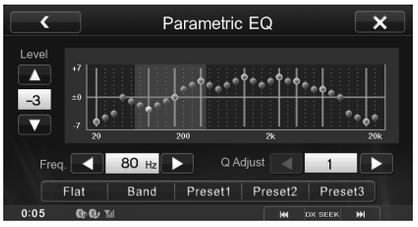
Touch [Preset1], [Preset2], or [Preset3] on the X-OVER screen.
The setting stored in the Preset will be recalled.

Adjusting the Parametric Equalizer Curve (Parametric EQ)

[Parametric EQ] is selected on the Audio setup menu in step 3. Refer to "Audio Setup Operation" (page 18).
You can modify the Equalizer settings to create a response curve more appealing to your personal taste.

Setting item: Parametric EQ

1 Adjust the Parametric EQ to your preference.



Adjusting the Band

Touch [Band] to select the band to be adjusted.

→ BAND1 → BAND2 → ··· → BAND8 → BAND9 →

- *You can select a band directly by touching the screen.*

Adjusting the Frequency

Touch [◄] or [►] of "Freq." to adjust the frequency of the selected band.

Adjustable frequency bands: 20 Hz to 20 kHz (in 1/3 octave steps)

BAND1: 20 Hz~100 Hz (63 Hz)
BAND2: 63 Hz~315 Hz (125 Hz)
BAND3: 125 Hz~500Hz (250 Hz)
BAND4: 250 Hz~1 kHz (500Hz)
BAND5: 500 Hz~2 kHz (1 kHz)
BAND6: 1 kHz~4 kHz (2 kHz)
BAND7: 2 kHz~7.2 kHz (4 kHz)
BAND8: 5.8 kHz~12 kHz (8 kHz)
BAND9: 9 kHz~20 kHz (16 kHz)

Adjusting the Level

Touch [▼] or [▲] of "Level" to adjust the level of selected band.

Setting contents: -7 to +7 (Initial setting: 0)

Setting the Bandwidth

Touch [◄] or [►] of "Q Adjust" to select the bandwidth.

Setting contents: 1 (Initial setting) / 2 / 3

2 To adjust another band, repeat step 1, and adjust all bands.

3 To store the adjusted setting value, touch and hold [Preset1], [Preset2], or [Preset3].

- *Settings exceeding the frequency of adjacent bands are not available.*
- *While adjusting the Parametric EQ, you should consider the frequency response of the connected speakers.*
- *When the parametric EQ is adjusted, the adjustment for Bass Max EQ becomes ineffective.*
- *When Bass Max EQ is set, the interlinked Parametric EQ settings are also changed. We recommend storing Parametric EQ settings in the Preset in advance.*
- *Touch **[Flat]** to initialise all values.*
- *The Parametric EQ setting can be configured when Defeat is "Off."*

Calling the Parametric EQ adjusted value

Calling the pre-set Parametric EQ adjusted value.

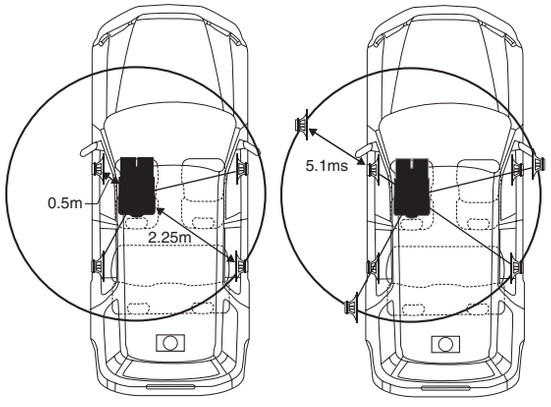
Touch [Preset1], [Preset2], or [Preset3] on the Parametric EQ screen.
The setting stored in the Preset will be recalled.

About Time Correction

The distance between the listener and the speakers in a car vary widely due to the complex speaker placement. This difference in the distances from the speakers to the listener creates a shift in the sounds image and frequency characteristics. This is caused by the time delay between the sound reaching the listener's right versus the left ear.
To correct this, this unit is able to delay the audio signal to the speakers closest to the listener. This effectively creates a perception of increased distance for those speakers. The listener can be placed at an equal distance between the left and right speakers for optimum staging.
The adjustment will be made for each speaker in 3.4cm steps.

Example 1. Listening Position: Front Left Seat

Adjust the time correction level of the front left speaker to a high value and the rear right to zero or a low value.



The sound is not balanced because the distance between the listening position and the various speakers is different.
The difference in distance between the front left speaker and the rear right speaker is 1.75 m (68-7/8").
Here we calculate the time correction value for the front left speaker in the diagram on the above.

Conditions:
Farthest Speaker – listening position : 2.25 m (88-9/16")
Front left speaker – listening position : 0.5 m (19-11/16")
Calculation: L = 2.25 m – 0.5 m = 1.75 m (68-7/8")
Time correction = 1.75 ÷ 343*[1] × 1000 = 5.1 (ms)

*[1] *Speed of sound: 343 m/s (765 mph) at 20°C*

In other words, giving the front left speaker a time correction value of 5.1 ms makes it seem as if its distance from the listener is the same as the distance to the farthest speaker.

Time correction eliminates the differences in the time required for the sound to reach the listening position.
The time of the front left speaker is corrected by 5.1 ms so that its sound reaches the listening position at the same time as the sound of other speakers.

Example 2. Listening Position: All Seats

Adjust the time correction level of each speaker to almost the same level.

1 Sit in the listening position (driver's seat, etc.) and measure the distance (in meters) between your head and the various speakers.

2 Calculate the difference between the distance correction value to the farthest speaker and the other speakers.

L = (distance to farthest speaker) – (distance to other speakers)

These values are the time correction values for the different speakers. Setting these values to make each sound reach the listening position at the same time as the sound of other speakers.

Time Correction Value List

Time Difference (msec)	Distance (cm)	Distance (inch)	Time Difference (msec)	Distance (cm)	Distance (inch)
0.0	0.0	0.0	5.1	173.4	68.3
0.1	3.4	1.3	5.2	176.8	69.7
0.2	6.8	2.7	5.3	180.2	71.0
0.3	10.2	4.0	5.4	183.6	72.4
0.4	13.6	5.4	5.5	187.0	73.7
0.5	17.0	6.7	5.6	190.4	75.0
0.6	20.4	8.0	5.7	193.8	76.4
0.7	23.8	9.4	5.8	197.2	77.7
0.8	27.2	10.7	5.9	200.6	79.1
0.9	30.6	12.1	6.0	204.0	80.4
1.0	34.0	13.4	6.1	207.4	81.7
1.1	37.4	14.7	6.2	210.8	83.1
1.2	40.8	16.1	6.3	214.2	84.4
1.3	44.2	17.4	6.4	217.6	85.8
1.4	47.6	18.8	6.5	221.0	87.1
1.5	51.0	20.1	6.6	224.4	88.4
1.6	54.4	21.4	6.7	227.8	89.8
1.7	57.8	22.8	6.8	231.2	91.1
1.8	61.2	24.1	6.9	234.6	92.5
1.9	64.6	25.5	7.0	238.0	93.8
2.0	68.0	26.8	7.1	241.4	95.1
2.1	71.4	28.1	7.2	244.8	96.5
2.2	74.8	29.5	7.3	248.2	97.8
2.3	78.2	30.8	7.4	251.6	99.2
2.4	81.6	32.2	7.5	255.0	100.5
2.5	85.0	33.5	7.6	258.4	101.8
2.6	88.4	34.8	7.7	261.8	103.2
2.7	91.8	36.2	7.8	265.2	104.5
2.8	95.2	37.5	7.9	268.6	105.9
2.9	98.6	38.9	8.0	272.0	107.2
3.0	102.0	40.2	8.1	275.4	108.5
3.1	105.4	41.5	8.2	278.8	109.9
3.2	108.8	42.9	8.3	282.2	111.2
3.3	112.2	44.2	8.4	285.6	112.6
3.4	115.6	45.6	8.5	289.0	113.9
3.5	119.0	46.9	8.6	292.4	115.2
3.6	122.4	48.2	8.7	295.8	116.6
3.7	125.8	49.6	8.8	299.2	117.9
3.8	129.2	50.9	8.9	302.6	119.3
3.9	132.6	52.3	9.0	306.0	120.6
4.0	136.0	53.6	9.1	309.4	121.9
4.1	139.4	54.9	9.2	312.8	123.3
4.2	142.8	56.3	9.3	316.2	124.6
4.3	146.2	57.6	9.4	319.6	126.0
4.4	149.6	59.0	9.5	323.0	127.3
4.5	153.0	60.3	9.6	326.4	128.6
4.6	156.4	61.6	9.7	329.8	130.0
4.7	159.8	63.0	9.8	333.2	131.3
4.8	163.2	64.3	9.9	336.6	132.7
4.9	166.6	65.7			
5.0	170.0	67.0			

About the Crossover

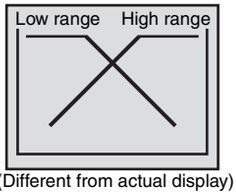
Crossover (X-OVER):

This unit is equipped with an active crossover. The crossover limits the frequencies delivered to the outputs. Each channel is controlled independently. Thus, each speaker pair can be driven by the frequencies for which they have been optimally designed.

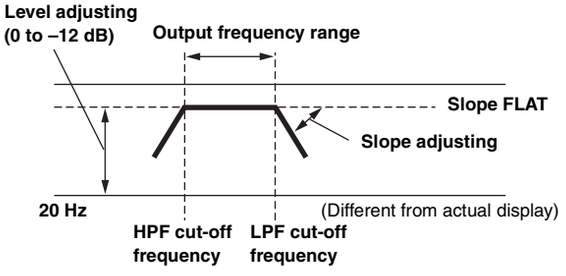
The crossover adjusts the HPF (high pass filter) or LPF (low pass filter) of each band, and also the slope (how fast the filter rolls off the highs or lows).

Adjustments should be made according to the reproduction characteristics of the speakers. Depending on the speakers, a passive network may not be necessary. If you are unsure about this point, please consult your authorised Alpine dealer.

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Low range speaker	----	20 Hz - 200 Hz	----	FLAT, –6, –12, –18, –24 dB/oct.	0 to –12 dB
Rear high range speaker	20 Hz - 200 Hz	----	FLAT, –6, –12, –18, –24 dB/oct.	----	0 to –12 dB
Front high range speaker	20 Hz - 200 Hz	----	FLAT, –6, –12, –18, –24 dB/oct.	----	0 to –12 dB



(Different from actual display)



- *HPF (high pass filter): Cuts the lower frequencies and allows the higher frequencies to pass.*
- *LPF (low pass filter): Cuts the higher frequencies and allows the lower frequencies to pass.*
- *Slope: The level change (in dB) for a frequency change of one octave.*
- *The higher the slope value, the steeper the slope becomes.*
- *Adjust the slope to FLAT to bypass the HP or LP filters.*
- *Do not use a tweeter without the HPF on or set to a low frequency, as it may cause damage to the speaker due to the low frequency content.*
- *You cannot adjust the crossover frequency higher than the HPF or lower than the LPF.*
- *Adjustment should be made according to the recommended crossover frequency of the connected speakers. Determine the recommended crossover frequency of the speakers. Adjusting to a frequency range outside that recommended may cause damage to the speakers.*
  For the recommended crossover frequencies of Alpine speakers, refer to the respective Owner's Manual.
  We are not responsible for damage or malfunction of speakers caused by using the crossover outside the recommended value.

Display Setup

Display Setup Operation

The parking brake must be engaged to access the Display mode screen. Attempting to access this screen while driving will display the warning-Unable to operate while driving.

The following steps 1 to 6 are common operations to each "Setting item" of Display Setup. Refer to each section for details.

1 Touch [Setup] on the Home screen.
The Setup main screen is displayed.

2 Touch [Display Setup].
The Display Setup screen appears.
- *You can display the Display Setup screen from each application screen. Touch [Display] on any application screen (video mode).*

3 Touch the desired application.

- *"Video" can be selected while a video is playing.*
- *The camera names set under the "AUX Camera" settings are displayed. The camera names are not displayed when "Off" is set (page 30).*

4 Touch [≫] of the desired item.

Settable items differ depending on the application.

■ [Video] (Video media):
Display Mode / Live Contrast / Visual EQ / Bright / Color / Tint / Contrast / Sharpness

■ [AUX Camera]:
Live Contrast / Bright / Color / Contrast

5 Touch [◄] or [►] to change its setting.

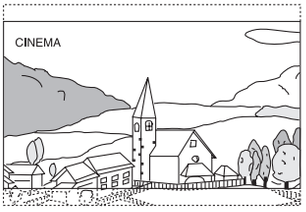
6 Touch [×] to return to the main application screen.
Touch [<] to return to the previous screen.

- *Immediately after changing the settings of Display Setup (While the system is writing data automatically) do not turn the ignition key to OFF. Otherwise, the settings may not be changed.*

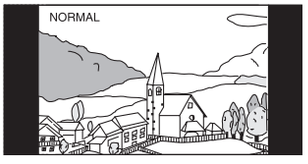
Switching Display Modes

Setting item: Display Mode
Setting contents: WIDE (Initial setting) / CINEMA / NORMAL

In WIDE mode, the monitor displays a normal picture wider to fit in a wide-screen monitor by evenly stretching out the picture horizontally.



In CINEMA mode, the monitor displays a normal picture by stretching out the picture horizontally and vertically. This mode is good for displaying a cinema type picture at the 16:9 ratio.



In NORMAL mode, the monitor displays a normal picture at the center of the screen with a vertical black band at each side.

Adjusting the Live Contrast

This function automatically adjusts the areas on the screen that are too bright or too dark and corrects them to natural brightness.

Setting item: Live Contrast
Setting contents: OFF (Initial setting) / LOW / HIGH

Selecting the Visual EQ Mode (Factory's setting)

You can select a mode suitable for the subject image.

Setting item: Visual EQ
Setting contents: OFF (Initial setting) / NIGHT M. / SOFT / SHARP / CONTRAST

OFF:	Initial Setting
NIGHT M.:	Suitable for movies in which dark scenes frequently appear.
SOFT:	Suitable for CGs and animated films.
SHARP:	Suitable for old movies where images are not clearly shown.
CONTRAST:	Suitable for recent movies.

- *To return to the default video settings, set this function to OFF. Any Visual EQ selection or changes made are reset their initial settings.*
- *If any adjustments are made to the existing Visual EQ selections (NIGHT M., etc.), "CUSTOM" is displayed.*

Adjusting Brightness

Setting item: Bright
Setting content: -15 to +15 (Initial setting: 0)

You can adjust the brightness between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

Adjusting Colour of Picture

Setting item: Color
Setting content: -15 to +15 (Initial setting: 0)

You can adjust the colour between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

Adjusting Tint of Picture

Setting item: Tint
Setting content: R15 to G15 (Initial setting: 0)

Adjust the colour from R15 to G15.

Adjusting Image Contrast

Setting item: Contrast
Setting content: -15 to +15 (Initial setting: 0)

You can adjust the contrast between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

Adjusting Picture Quality

Setting item: Sharpness
Setting content: -5 to +5 (Initial setting: 0)

Picture quality adjustment range is -5 to +5. "SOFT" and "HARD" appear as the minimum and maximum values specified.

Saving and Calling the Adjusted Picture Quality

When adjusting audio (video media), you can store the settings made for "Adjusting Live Contrast, Brightness, Color, Tint, Contrast and Sharpness."

Setting item: Preset1 / Preset2

1. After completing "Adjusting Live Contrast, Brightness, Color, Tint, Contrast and Sharpness" (page 24), touch and hold [Preset1] or [Preset2] to save the settings.
2. Touch [Preset1] or [Preset2] to call the saved settings.

- *Visual EQ is registered as "CUSTOM."*
- *Display Mode cannot be registered.*

General Setup

General Setup Operation

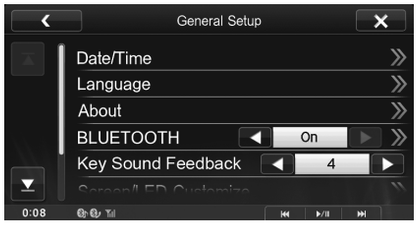
The parking brake must be engaged to access the General mode screen. Attempting to access this screen while driving will display the warning-Unable to operate while driving.

The following steps 1 to 4 are common operations to each "Setting item" of General Setup. Refer to each section for details.

1 Touch [Setup] on the Home screen.
The Setup main screen is displayed.

2 Touch [General Setup].
The General Setup screen appears.

3 Touch [◀] or [▶] etc., of the desired item to change its setting. For items that have "≫," touch the item to display the screen for the next hierarchy.



Setting items: Date/Time / Language / About / BLUETOOTH / Key Sound Feedback / Screen/LED Customize / Security Code

- *Depending on the item, repeat step 3.*

4 Touch [×] to return to the main application screen.
Touch [<] to return to the previous screen.

- *Immediately after changing the settings of General Setup (While the system is writing data automatically) do not turn the ignition key to OFF. Otherwise, the settings may not be changed.*

Date/Time Setting

Touch **[Date/Time]** on the General setup menu in step 3. Refer to "General Setup Operation" (page 25).

Setting of Calendar Display Pattern Switching

You can switch the calendar display pattern to be shown when the time is displayed.

Setting item: Calendar Type
Setting contents: M/D (Initial setting) / D/M

M/D: shows the month/day
D/M: shows the day/month

Setting the Clock Display

You can select the clock display type, 12-hour or 24-hour, depending on your preference.

Setting item: Clock Mode
Setting contents: 12h (Initial setting) / 24h

Setting the Time

Setting item: Clock Adjust
Additional items: Year / Month / Day / Hour / Minute
Setting content: 2012~ / JAN-DEC / 1-31 / 01-12 or 00-23 / 00-59 (Initial setting: 2012 / JAN / 1 / 00 / 00)

Year: Adjust the year.
Month: Adjust the month.
Day: Adjust the day.
Hour: Adjust the hour.
Minute: Adjust the minute.

- *Touch and hold [◀] or [▶] to run through a change sequence automatically.*

Language Setting

Touch **[Language]** on the General setup menu in step 3. Refer to "General Setup Operation" (page 25).

Setting the Scroll

Scroll display is available if folder name, file name or tag information is entered.

Setting item: Auto Scroll
Setting contents: Off / On (Initial setting)

Off: Turns off the scroll mode.
On: Turns on the Auto scroll mode. Scroll display is repeated as long as the mode is turned on.

Format Settings

The character code to be used for tag text information displayed on the screen can be selected from 7 character codes.

Setting item: Format Sel.
Setting contents: EU1 / EU2 (Initial setting) / RUS / JPN / CHI / THA / ARA

EU1: ISO 8859-1
EU2: ISO 8859-15
RUS: ISO 8859-5
JPN: CP932
CHI: GB18030
THA: CP874
ARA: CP1256

Setting the Menu Language

The Setup menu, feedback information, etc. for this unit can be changed to appear in the selected language.

Setting item: Language Sel.
Setting contents: English / German / French / Spanish / Portuguese / Italian / Dutch / Finnish / Norwegian / Swedish / Russian / Japanese / Thai / Arabic / Chinese

- *Touch **[OK]** to confirm the language and display the screen in the specified language.*

About ICS-X7

Touch **[About]** on the General setup menu in step 3. Refer to "General Setup Operation" (page 25).

Displaying the Product Information

You can view the version information of this product. Make note of this information and refer to it whenever you contact Alpine Tech Support or an Alpine-authorised dealer.

Contents: Serial No. / Firmware Version

Checking the DivX® Registration

This unit will display the registration code required to play a DivX® VOD (Video On Demand), or you can also display the deregistration code.

Setting item: Warranty / Copyright Info.

Displaying the Registration Code

1. **Touch [Warranty/Copyright Info.].**
2. **Touch [DivX(R) VOD].**
3. **Touch [Registration].**
   The registration code is displayed on the screen.
4. **Touch [OK].**

Displaying the Deregistration Code

1. **Touch [Warranty/Copyright Info.].**
2. **Touch [DivX(R) VOD].**
3. **Touch [Deregistration].**
   The confirmation dialog screen appears.
4. **Touch [OK].**
   The deregistration code is displayed on the screen.

- *When you have finished, touch **[Cancel]**. If you want to continue and display a new registration code, touch **[OK]**, check the registration code, and then touch **[OK]** again.*

Initialising the System

You can initialise all data, to restore the factory settings. Remove the USB memory, etc. from the system before operation

Setting item: Clear All Settings

1. **Touch [Reset] of "Clear All Settings."**
2. **After the confirmation message appears, touch [OK].**
   The system starts initialisation.

- *Do not turn on/off the power or change the ignition key position until system restart is completed.*

BLUETOOTH Setting

[BLUETOOTH] is selected on the General setup menu in step 3. Refer to "General Setup Operation" (page 25).

Setting the BLUETOOTH On/Off

When using BLUETOOTH, first set the BLUETOOTH mode to "On."

Touch [On] or [Off] of "BLUETOOTH" in the General Setup screen.
After selecting "On," you can adjust BLUETOOTH settings by touching [BLUETOOTH].

- *If the Bluetooth setting is "Off," you cannot move to the BLUETOOTH setting screen.*

Setting the BLUETOOTH Device

Registering the BLUETOOTH Device

The BLUETOOTH device is used when a connectable BLUETOOTH compatible device is searched and connected from this unit, or a new BLUETOOTH compatible device is registered.

1. **Touch [Set BLUETOOTH Device].**
2. **Touch [Search] of "No Device."**
   The Device list displays up to 10 items.
3. **Touch [Audio], [HFT] or [Both] of the device you want to connect from the list.**
   Audio: Sets for use as an Audio device
   HFT: Sets for use as a Hands Free Device.
   Both: Sets for use as both an Audio device and Hands Free Device.
   - *You can connect (pair) up to 5 BLUETOOTH compatible mobile phones.*
4. **When the device registration is complete, a message appears and the device returns to normal mode.**

- *The BLUETOOTH registration process differs depending on the device version and SSP (Simple Secure Pairing). If a 4 or 6 character Passcode appears on this device, enter the Passcode using the BLUETOOTH compatible device.*
  If a 6 character Passkey appears on this device, make sure the same passkey is displayed on the BLUETOOTH compatible device and touch "Yes."
- *If all the 5 devices have been registered, you cannot register the 6th device. To register another device, you need to delete one of the devices from position 1 to 5 first.*

Setting the BLUETOOTH Device

Select one of 5 paired BLUETOOTH compatible devices that you previously registered.

1 **Touch [Set BLUETOOTH Device].**

2 **Touch [Audio] or [HFT] of the device you want to connect from the Paired Device list.**

Deleting a BLUETOOTH Device from the list

You can delete the information of a previously connected BLUETOOTH compatible device.

1 **Touch [Set BLUETOOTH Device].**

2 **Touch [Delete] of the BLUETOOTH compatible device to delete from the Paired Device list.**
A message is displayed.

3 **Touch [OK].**

- *Touching **[Cancel]** will cancel the setting.*

Automatic Connection Setting

If the Automatic Connecting setting is "On," automatic connection is performed for the BLUETOOTH audio device registered in the Paired Device list.

Setting item: Auto Connect
Setting contents: Off (Initial setting) / On

Setting the Passcode

You can set the code for connecting with a BLUETOOTH compatible device.

Setting item: Passcode Change

1 **Touch [Input] of "Passcode Change."**
A numeric keypad screen is displayed.

2 **Enter a 4-digit passcode, and then touch [Enter].**

- *The initial number is 0000.*

Changing the Character Code of the Phone Book

You can select the character code that is used when transferring the phone book or history from a mobile phone. If unreadable characters appear in the transferred data, select the correct character code.

Setting item: Default Phonebook Encoding
Setting contents: EU1 / EU2 (Initial setting) / Russian / Japanese / Chinese / Thai / Arabic / Unicode UTF-8 / Unicode UTF-16LE / Unicode UTF-16BE

1 **Touch [Default Phonebook Encoding].**
The Character code list screen is displayed.

2 **Touch the desired character code.**

EU1: ISO 8859-1
EU2: ISO 8859-15
Russian: ISO 8859-5
Japanese: CP932
Chinese: GB18030
Thai: CP874
Arabic: CP1256
Unicode UTF-8
Unicode UTF-16LE
Unicode UTF-16BE

3 **Touch [OK].**

- *After the setting is completed, synchronise the phone books again.*

Key Sound Feedback Setting

[Key Sound Feedback] is selected on the General setup menu in step 3. Refer to "General Setup Operation" (page 25).

Adjusting the Operating Sound

You can change the volume of the sound heard when a button is touched.

Setting item: Key Sound Feedback
Setting contents: 0 to 7 (Initial setting: 4)

Screen/LED Customize

Touch **[Screen/LED Customize]** on the General setup menu in step 3. Refer to "General Setup Operation" (page 25).

Setting the Brightness of the Backlighting

Backlighting is provided by a fluorescent light built into the liquid crystal panel. The illumination control adjusts the brightness of the backlighting based on the car ambient lighting for easier viewing.

Setting item: Dimmer
Setting contents: Auto (Initial setting) / On / Off

Auto:	Adjust the brightness of the background illumination of the monitor automatically to the brightness of the car interior.
On:	Keep the background illumination of the monitor dark.
Off:	Deactivate Auto Dimmer mode to keep the background illumination of the monitor bright.

- *When "Auto" or "On" is set, the setting is also applied for the button lighting in "Adjusting the Dimmer of Button Lighting at Night" (page 28), and "Adjusting the Minimum Level of Backlight" (page 28).*

Adjusting the Dimmer of Button Lighting at Night

You can adjust the brightness of the button lighting at night with the dimmer.

Setting item: Key Illumination Level
Setting level: -2 to +2 (Initial setting: 0)

Changing the Colour of the Home Button

There are 4 colours available to select from for the Home button.

Setting item: LED Color
Setting contents: Blue (Initial setting) / Red / Green / Amber

Adjusting the Minimum Level of Backlight

You can adjust the brightness of the backlight. This function could be used, for instance, to change the screen brightness while travelling at night.

Setting item: Screen Dimmer Level
Setting content: -15 to +15 (Initial setting: 0)

You can adjust the level between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

Switching the Display Colour

You can choose from 5 different display colours.

Setting item: Screen Color
Setting contents: Blue (Initial setting) / Red / Green / Amber / Mono

Adjusting the Touch Panel

Adjustment becomes necessary when the display position on the LCD and the touch position on the touch panel do not match.

Setting item: Screen Alignment

1. **Touch [Screen Alignment] in the Screen/LED Customize screen.**
   The adjustment screen appears.
2. **Accurately touch the mark provided in the upper left corner of the screen.**
3. **Accurately touch the mark provided in the lower right corner of the screen.**
   This completes adjustment, and returns to the previous screen.

- *If you have touched a location other than the mark, touch **[Reset]** to restore the adjustment screen to the initial setting.*
- *If you touch **[Cancel]** on the adjustment screen, no adjustment is done and returns to the previous screen.*

Security Code Setting

[Security Code] is selected on the General setup menu in step 3. Refer to "General Setup Operation" (page 25).

Setting Security Code

You can set the system to be unusable without entering a password. When you turn this setting to "On" and set a password, password input is required when the system is connected to a battery and turned on for the first time.

Setting item: Security Code
Setting contents: Off (Initial setting) / On

Setting the password

1 **Touch [◄] or [►] of "Security Code" to set to "On."**

2 **After the confirmation message appears, touch [OK].**
The password setting screen is displayed.

3 **Enter a password, then touch [Enter].**
- *Enter the 6-digit number.*
- *Input numbers are displayed as "*."*

4 **Enter the same password again, then touch [Enter].**
The password is set and the system returns to the previous screen.

- *If you forget a registered password, you can not use this unit. In this case, service will be required.*

Clearing the password

1 **Touch [◄] or [►] of "Security Code" to set to "Off."**
The password setting screen is displayed.

2 **Enter the password you have set, then touch [Enter].**
The password is cleared and the system returns to the previous screen.
- *Input numbers are displayed as "*."*

Application Setup

Application Setup Operation

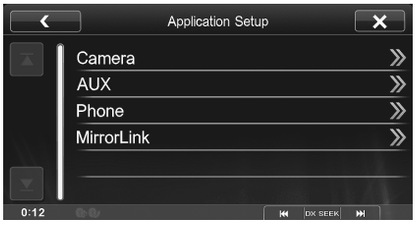
The parking brake must be engaged to access the Application mode screen. Attempting to access this screen while driving will display the warning-Unable to operate while driving.

The following steps 1 to 5 are common operations to each "Setting item" of Application Setup. Refer to each section for details.

1 **Touch [Setup] on the Home screen.**
The Setup main screen is displayed.

2 **Touch [Application Setup].**
The Application Setup screen appears.

3 **Select the desired item.**
If "≫" appears, there is next hierarchy. Touch the desired item.
If "≫" does not appear, proceed to step 4.



Setting items: Camera / AUX / Phone / MirrorLink

4 **Touch [◄] or [►] etc., to change its setting.**

5 **Touch [×] to return to the main application screen.**
Touch [<] to return to the previous screen.

- *Immediately after changing the Application Setup (while the system is writing data automatically) do not turn the ignition key to OFF. Otherwise, the settings may not be changed.*

Camera Setting

Touch **[Camera]** on the Application setup menu in step 3. Refer to "Application Setup Operation" (page 29).

Setting the Camera Input

With an optional camera connected, its video is output to the monitor. When the camera is connected, set this item.

Setting item: AUX Camera
Setting contents: Off (Initial setting) / Rear / OTHER

Rear:	Rear camera
OTHER:	Side camera, Room camera, etc.

- *When set to "OTHER," a camera icon appears on the Home screen.*
- *A camera and auxiliary device cannot be connected to the ICS-X7 at the same time. If "Rear" or "OTHER" is set, "AUX In" (page 31) will be set to "Off."*

After selecting "Rear" or "OTHER" in the "AUX Camera" setting, touch of [AUX Camera], the following additional items can be adjusted.

Adjusting the Rear Camera Guide

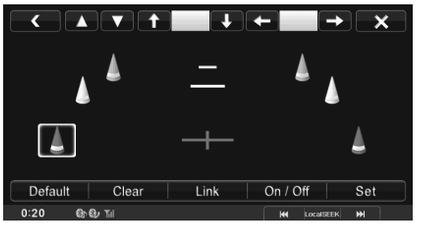
If you select "Rear," you can adjust the camera guide position.

Setting item: Guide Adjustment

1 **Touch [Guide Adjustment].**
The camera guide adjustment screen is displayed.

2 **Touch the guide you intend to adjust.**
Guide line can also be selected by touching [▲] [▼].

■ **Display example for rear camera mode**

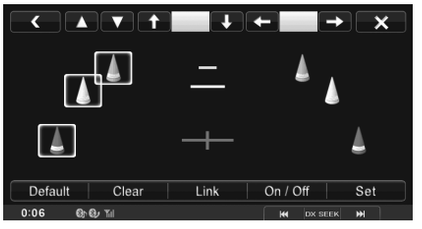


3 **Touch [↑], [↓], [←] or [→] to adjust the position of the guide.**
- *Touching **[Clear]** clears adjustments and returns to the setting before guide line alteration.*

4 **After the adjustment is completed, touch [Set].**

Adjusting guides simultaneously

1 **Touch [Link].**
The 3 vertical guides of the currently-selected guide link together, allowing them to be adjusted simultaneously.



Turning guide display On/Off

Turning the selected guide off.

1 **Touch [On/Off].**
The currently selected guide will turn off.

2 **To turn the guide on, touch [On/Off] again.**

- *Guides that are turned off are still adjustable.*

Returning guides to default.

1 **Touch [Default].**
A message window will appear.

2 **Touch [OK].**
Adjusted values will return to default settings.

Setting the AUX Camera Signal Input

When the AUX camera is connected, the video input signal type can be chosen.

Further setting item: Camera Signal
Setting contents: NTSC (Initial setting) / PAL

NTSC/PAL: Choose the video input signal type manually.

Setting the Camera Interrupt

Even when the unit is powered off, the monitor will display the rear view behind the vehicle when the gear lever is shifted to the reverse position.

Setting item: Interrupt (PowerOFF)
Setting contents: On (Initial setting) / Off

- *Rear camera can only be operated to display the rear view.*
- *When the gear lever is shifted out of reverse, the unit turns off.*

AUX Setting

Touch **[AUX]** on the Application setup menu in step 3. Refer to "Application Setup Operation" (page 29).

Setting the AUX Mode

Setting item: AUX In
Setting contents: Off / On (Initial setting)

Off: AUX source is not displayed.
On: AUX source is displayed.

- *After selecting "On" in the "AUX In" setting, touch **[AUX In]**, the following further items can be adjusted.*
- *A camera and auxiliary device cannot be connected to the ICS-X7 at the same time. If "On" is set, "AUX Camera" (page 30) will be set to "Off."*

Setting the Primary AUX Name

Setting item: Primary Name
Setting contents: AUX1(Initial setting) / DVD / GAME / EXT.DVD / DVD-CHG. / DVB-T / TV

- *When a DVB-T tuner is connected, you can use it to connect one more External Input device. Setting the Secondary name can change the mode name display of this device.*

Setting the Secondary AUX Name

Secondary name can be set only when Primary name is set to "DVB-T."

Setting item: Secondary Name
Setting contents: OFF (Initial setting) / AUX2 / DVD / GAME / EXT.DVD / DVD-CHG. / TV

- *The selected source name is displayed instead of AUX mode name.*

Switching the Visual Input Signal System

After setting to "On" in "Setting the AUX Mode," this setting can be carried out. The video input type can be changed.

Setting item: Signal
Setting contents: Auto (Initial setting) / NTSC / PAL

Auto: The video input signal type (NTSC or PAL) will be automatically selected.
NTSC/PAL: Choose the video input signal type manually.

Setting the AUX3

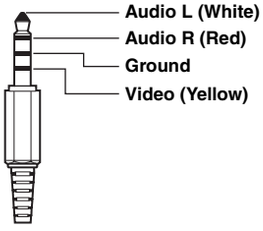
Connection with external input devices is available through the iPod VIDEO connector. An optional adapter cable is required (standard RCA to 3.5ø mini-phono plug or 3.5ø to 3.5ø mini phono plug).
You can also play back video connecting with an optional AV cable (4-pole mini AV plug to 3-RCA).

Setting item: AUX3 In Sel.
Setting contents: iPod Video (Initial setting) / AUX3

iPod Video:	Set when connected to an iPod or iPhone.
AUX3:	Set when connected to an external input device.

■ Usable 4-pole mini AV plug

The unit accepts the following 4-pole mini AV plug pin-out:



- *Please check pin-out carefully before use of this product. Depending on the cable, there may be no picture and/or sound.*

Switching the Visual Input Signal System (AUX3 In Sel.)

After setting to "AUX3" in "Setting the AUX3 In Sel.," this setting can be carried out. The video input type can be changed.

Setting item: Signal
Setting contents: Auto (Initial setting) / NTSC / PAL

Auto:	The video input signal type (NTSC or PAL) will be automatically selected.
NTSC/PAL:	Choose the video input signal type manually.

Phone Setting

Touch **[Phone]** on the Application setup menu in step 3. Refer to "Application Setup Operation" (page 29).

Setting Received Calls Automatically

When a call is received, you can set whether to answer it automatically or not.

Setting item: Auto Answer
Setting contents: Off (Initial setting) / On

On:	When a call is received, it will be answered automatically
Off:	When a call is received, it will not be answered automatically

Setting the time for automatic reception of a call

When "Auto Answer" is set to "On," you can set how many seconds to let elapse before letting the Auto Answer pick up the call.

Setting item: Time
Setting contents: 5sec / 10sec (Initial setting) / 15sec / 20sec

1 **Touch [Auto Answer.].**
The Auto Answer setting screen is displayed.

2 **Touch [◄] or [►].**

Selecting the Output Speaker

You can select which speaker in the car will output the audio from the phone.

Setting item: Phone Speaker
Setting contents: All(Initial setting) / Front L / Front R / Front LR

All:	The sound is output from all speakers in car.
Front L:	The sound is only output from the front left speaker.
Front R:	The sound is only output from the front right speaker.
Front LR:	The sound is output from the front left and front right speakers.

- *The setting cannot be adjusted during a phone call. Adjust the setting before placing a call.*

Adjusting the Caller Volume

You can adjust the receive volume, during the call.

Setting item: Caller Volume
Setting contents: 1 to 11 (Initial setting: 5)

Adjusting the Microphone Level

You can adjust the transmit volume, during the call.

Setting item: Microphone Level
Setting contents: 1 to 11 (Initial setting: 5)

Adjusting the Ring Tone Volume

You can adjust the volume of the incoming call.

Setting item: Ring Tone Volume
Setting contents: 1 to 11 (Initial setting: 5)

MirrorLink™ Setting

Touch **[MirrorLink]** on the Application setup menu in step 3. Refer to “Application Setup Operation” (page 29).

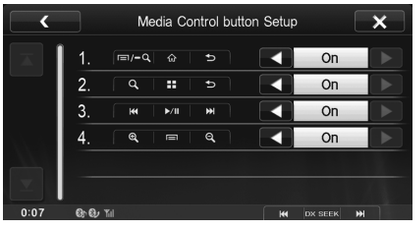
Media Control button Setup

Media Control button setup is performed for the Mirror mode/Car mode. Set “On” to enable the Media Control buttons.

Setting item: Media Control button Setup
Setting contents: Off / On (Initial setting)

1 **Touch [Media Control button Setup].**
The Media Control button Setup screen is displayed.

2 **Touch [◄] or [►] to set to On or Off.**



- *The Guide Display of a mode set to “Off,” is not displayed.*

BLUETOOTH Operation

Setup Before Using

About BLUETOOTH

BLUETOOTH is a wireless technology allowing communication between a mobile device or personal computer over short distances. This enables a hands-free call or data transmission between BLUETOOTH compatible devices. BLUETOOTH transmission is available in the unlicensed 2.4 GHz spectrum if the distance between devices is within 10 meters. For details, refer to the BLUETOOTH website (http://www.bluetooth.com/).

- *Depending on the BLUETOOTH version, a BLUETOOTH compatible device may not be able to communicate with this unit.*
- *Proper function of this unit with all BLUETOOTH compatible devices is not guaranteed. For handling of the BLUETOOTH compatible device, consult your ALPINE dealer or ALPINE website.*
- *Depending on the surroundings, BLUETOOTH wireless connection may be unstable.*
- *When you place a call, or perform setup operations, be sure to stop your car in a safe place.*
- *Depending on the connected BLUETOOTH compatible device(s), the function may differ. Also refer to the Owner's Manual of the connected device(s).*

About the Hands-Free Phone

Hands-free calls are possible when using a HFP (Hands-Free Profile) compatible mobile phone with this unit.

- *Avoid performing a hands-free call in heavy traffic or on narrow or winding streets.*
- *Close the windows while calling to reduce background noise.*
- *If both calling parties are using hands-free devices, or the call is made in a noisy location, difficulty hearing the other person's voice is normal.*
- *Depending on telephone line conditions or certain mobile devices used, voices may sound unnatural.*
- *When using a microphone, speak as directly as you can into the microphone to obtain the best sound quality.*
- *Certain mobile phone features are dependent on the capabilities and settings of your service provider's network. Additionally, certain features may not be activated by your service provider, and/or the provider's network settings may limit the feature's functionality. Always contact your service provider about feature availability and functionality.*
  All features, functionality, and other product specifications, as well as the information contained in the Owner's Manual are based upon the latest available information and are believed to be accurate at the time of printing.
  Alpine reserves the right to change or modify any information or specifications without notice or obligation.

Before Using BLUETOOTH

Before using the hands-free phone/audio function, the following settings need to be made.

1 Set "BLUETOOTH" to "On" (see page 26).

2 Register a BLUETOOTH device in this unit (see page 26).

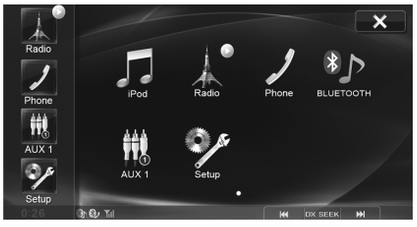
- *Refer to "BLUETOOTH Setting" (page 26).*
- *You can search for this unit using a BLUETOOTH compatible device, and then connect that BLUETOOTH compatible device to this unit. The device name of this unit is "ICS-X7" and the initial number of the passcode is "0000." Also refer to the Owner's Manual of the connected device(s).*

Connecting a BLUETOOTH Device

Registering a BLUETOOTH device in ICS-X7 enables automatic connection.
If it does not connect automatically, run through the connection procedure again.

1 Press the Home button.
The Home screen is displayed.

2 Touch [Phone] or [BLUETOOTH].



3 Touch [Reconnect].
BLUETOOTH connection will start.

Disconnecting the BLUETOOTH Connection

Touch [Disconnect] on the "Phone" or "BLUETOOTH Audio" screen.
The BLUETOOTH connection is disconnected.

Changing the connecting BLUETOOTH Device

If multiple BLUETOOTH devices are registered in this device, you can change the connection among the registered devices.

1 Press the Home button.
The Home screen is displayed.

2 Touch [Phone] or [BLUETOOTH].

3 Touch [Change].
The Set BLUETOOTH Device screen is displayed.

4 Touch [Audio] or [HFT] of the selected device.
The connection will transfer to the selected device.

Hands-Free Phone Control

Answering a Call

Incoming calls are announced by the received call ring tone and a displayed message (PHONE No., etc.).

1 An incoming call triggers the ringtone and an incoming call display.

2 Touch [ ] or press Media Control button 1.
The call starts.

- *When "Setting Received Calls Automatically" (page 32) is set to "On," you can receive a call automatically.*
- *During a call, the audio for the current mode on the unit is muted. After calling, playback will resume.*
- *When the caller's number is transmitted to the system, if the caller's name is stored in the phone book, the name is displayed. If the name is not stored, the number is displayed. When neither the name or the number is unavailable, "Unknown" is displayed.*

Adjusting Ringtone Volume

The ringtone volume is adjustable on the incoming call message screen.

Touch [◀] or [▶] for "Vol."

Hanging up the Telephone

Touch [ ] or press Media Control button 3.
The call finishes.

Calling

Use the Phone menu screen to make a phone call.

Calling display example

Dialling a Number in Call History

You can use 4 types of history to make a phone call. Call History saves up to 60 phone numbers. If the limit is exceeded, the oldest phone number is deleted.

1 Press the Home button.
The Home screen is displayed.

2 Touch [Phone].
The phone menu screen is displayed.

3 Touch [Recent Calls].
The Recent Calls screen appears.

■ Display example for Call History screen

: Dialled history
: Unanswered history
: Received history
: Missed Incoming history

4 Touch the name or the telephone number from the call history list.
The details screen of the call history is displayed.

5 Touch [ ].
The phone call is started.

Dialing a Number in the Phone Book

You can use the phone book of the mobile phone to make a phone call. Before using, you need to transfer the phone book from the mobile phone to the system. For details on how to transfer the phone book, refer to "Synchronising the Phone Book" (page 36).

1 Press the Home button.
The Home screen is displayed.

2 Touch [Phone].
The phone menu screen is displayed.

3 Touch [Phone Book].

4 Touch the person name or the telephone number from the Phone Book list.

5 Touch [ ].
The phone call is started.

Entering a Phone Number to Make a Call

1 Press the Home button.
The Home screen is displayed.

2 Touch [Phone].
The phone menu screen is displayed.

3 Touch [Keypad].
The number input screen appears.

4 Enter the phone number you wish to call.
- *You can enter up to 31 digits.*

5 Touch [ ].
The phone call is started.

Using Short Cut Dialling to Make a Call

You can assign up to 3 phone numbers for one-touch dialing to make a call easily. For how to assign one-touch dialling, refer to "Assigning as a Short Cut Dialling Number" (page 38).

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Phone].**
The phone menu screen is displayed.

3 **Touch [Dial1], [Dial2] or [Dial3].**
The phone call is sent to the stored number.

- *If a name has been registered, the name is displayed on the shortcut button.*

Redial Function

You can redial the person you have previously called.

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Phone].**
The phone menu screen is displayed.

3 **Touch [Redial].**

4 **Touch [Call].**
The number is redialed.

Operations During a Conversation

Display example

① Name and phone number
② Conversation time

Adjusting the Speech Volume

You can adjust the transmit volume and receive volume respectively.

Touch [◀] or [▶] for "Vol."

: Outgoing volume

: Incoming volume

You can adjust the volume in 11 levels.
Touch [◀] to turn down the volume. Touch [▶] to turn up the volume.

Changing the Voice Output

The voice output for calls is switchable between car speakers and the mobile phone speaker.

Touch [ ] or press Media Control button 2.

- *Depending on the mobile phone, this operation may not be possible.*

DTMF (Touch-Tone) Function

Transmits a DTMF (Touch-Tone) during a call.

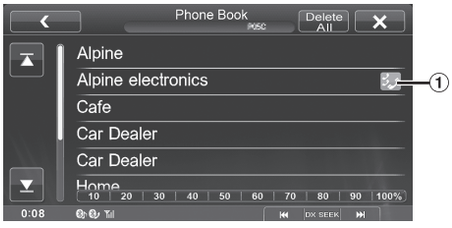
1 **Touch [Keypad].**
The number input screen appears.

2 **Input number.**

- *You can transmit a Touch-Tone signal during a call.*
- *Touching and holding "0" initiates "+" tone transmission.*

Phone Book Function

Display example for Phone Book screen



① An icon is displayed to indicate that multiple phone numbers are registered under an entry.

Synchronising the Phone Book

You can synchronise the system's phone book with the mobile phone's phone book.

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Phone].**
The phone menu screen is displayed.

3 **Touch [Load].**

4 **Touch [SYNC].**
Synchronisation of the phone books starts.

- *You can store up to 1,000 phone numbers in the phone book of the system.*
- *You can store up to 5 phone numbers by one person's name.*

Adding the Phone Book

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Phone].**
The phone menu screen is displayed.

3 **Touch [Load].**

4 **Touch [Add].**
Stays on standby for connection of the mobile phone.
• *Touch **[Cancel]** to cancel the standby mode.*

5 **The mobile phone accesses this unit and then transfers the phone book from the mobile phone to this unit.**

• *Mobile phone connection is cancelled while the phone book is being transferred.*

Deleting the Phone Book Entries

Deleting One Entry from the Phone Book

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Phone].**
The Phone menu screen is displayed.

3 **Touch [Phone Book].**
The Phone Book screen is displayed.

4 **Touch the phone number you intend to delete.**
The detail screen of the Phone book is displayed.

5 **Touch [Delete].**
The confirmation screen is displayed.

6 **Touch [OK].**
The selected number is deleted.

Deleting All Entries from the Phone Book

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Phone].**
The Phone menu screen is displayed.

3 **Touch [Phone Book].**
The Phone Book screen is displayed.

4 **Touch [Delete All].**
The confirmation screen is displayed.

5 **Touch [OK].**
All entries of the phone book are deleted.

Percent Search Function

The unit's percent search function can be used to search for phone book, more efficiently.

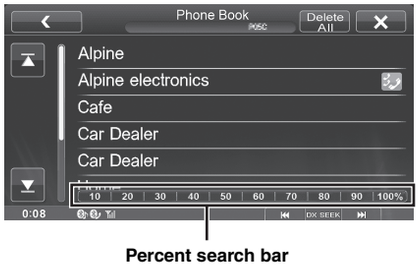
1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Phone].**
The Phone menu screen is displayed.

3 **Touch [Phone Book].**
The Phone Book screen is displayed.

4 **Touch anywhere on the Percent search bar.**

■ **Display example for Percent search screen**



Percent search bar

Percent Search Function:

For example, 100 entries are stored in the Phone book. These 100 entries are divided into 10 groups (10%, 20%, … 100%).
Suppose the number you are searching for is located at around the 50th number of your phone book: touch around the middle (50%) of the percent search bar to jump to the number you desire.

Assigning as a Short Cut Dialling Number

Assigning from Call History

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Phone].**

3 **Touch [Recent Calls].**

4 **Touch the person name you intend to assign as the Short Cut dialling number.**
The details screen of the Phone book is displayed.

5 **Touch [Preset].**
The details screen for the Short Cut is displayed.

6 **Touch [Save].**
The phone number is assigned to the selected Short Cut dialling number.

- *If Dial1, Dial2 or Dial3 is already registered, it is overwritten.*
- *Touch **[Delete]** to delete an assigned short cut dialing number.*

Assigning from the Phone Book.

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Phone].**

3 **Touch [Phone Book].**

4 **Touch the phone number you intend to assign as the Short Cut dialling number.**
The details screen of the Phone book is displayed.

5 **Touch [Preset].**
The details screen for the Short Cut is displayed.

6 **Touch [Save].**
The phone number is assigned to the selected Short Cut dialling number.

- *If Dial1, Dial2 or Dial3 is already registered, it is overwritten.*
- *Touch **[Delete]** to delete an assigned short cut dialing number.*

Call Waiting Function

If a call comes in from another phone during a call, a notice is displayed on the screen. This function can only be used if the connected mobile phone has a call waiting function service included.

Receiving calls during a current call

If a new call comes in during a current call, a screen allowing you to negotiate the new call is displayed.

① Touch [ ] to take the new call and put the current party on hold.
Touch [ ] to not take the new call and continue your call with the current party.
② Touch [ ] or press the Media Control button 3 to end your call with the current call and take the new call.

Switching calls

③ Touch to switch the call.

- *This unit supports only the Call Waiting function of a mobile phone. The second call function and three-way calling function of a mobile phone cannot be operated from this unit. Also the screen display may malfunction.*

BLUETOOTH Audio

If a BLUETOOTH compatible mobile phone, portable player, etc. is connected by wireless, you can play back a song (operation is controllable from the unit).

■ Display example for BLUETOOTH Audio main screen

Simple mode

Info mode

① Current song no.
② Status Indicator
The Indicator displays during Repeat and M.I.X. playback.
③ Song title
④ Artist title
⑤ Album title
⑥ Next file (song) title
⑦ Elapsed time
⑧ Audio Setup button (see "Audio Setup Operation" on page 18)

- *The displayed onscreen buttons may differ depending on the AVRCP version.*
- *Status Indicator/Song title/Artist title/Album title/Elapsed time do not display for AVRCP Ver. 1.0.*
- *For instructions on switching between Simple mode and Info mode, refer to "Switching Between Simple Mode & Info Mode" (page 15).*
- *To play back audio, a mobile phone or a portable player conforming to A2DP (Advanced Audio Distribution Profile) or AVRCP (Audio/Video Remote Control Profile) is required.*
  Not all functions work with all devices.
- *During a call, sound on the BLUETOOTH audio source is muted.*

Compatible AVRCP versions: 1.0, 1.3, 1.4

- *Available functions may differ depending on the AVRCP version.*

Playback

1 Press the Home button.
The Home screen is displayed.

2 Touch [BLUETOOTH].

3 Touch [|◀◀] or [▶▶|] to select the desired track (file).

Returning to the beginning of the current file:
Touch [|◀◀].

Fast backward the current file:
Touch and hold [|◀◀].

Advance to the beginning of the next file:
Touch [▶▶|].

Fast forward the current file:
Touch and hold [▶▶|].

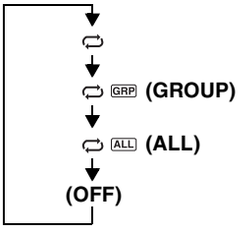
4 To pause playback, press Media Control button 2 (▶/II).
Pressing Media Control button 2 (▶/II) again will resume playback.

- *Operations can be performed in the same way by pressing **Media Control buttons 1** or **3**. Refer to "Using the Media Control buttons" (page 10).*
- *Operations may differ depending on the connected BLUETOOTH compatible device.*

Repeat Play

Available for AVRCP Ver. 1.3 and 1.4 only.

Touch [🔁] during playback.
The repeat mode switches every time the button is touched.

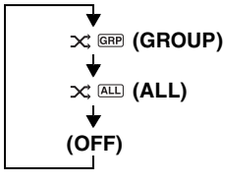


- *Operations may differ depending on the connected BLUETOOTH compatible device.*

M.I.X. (Random Play)

Available for AVRCP Ver. 1.3 and 1.4 only.

Touch [⤮] during playback.
The M.I.X. mode switches every time [⤮] is touched.



- *Operations may differ depending on the connected BLUETOOTH compatible device.*

Selecting Groups

Available for AVRCP Ver. 1.3 and 1.4 only.

Touch [◄ Group] or [Group ►] to select the group.

- *Operations may differ depending on the connected BLUETOOTH compatible device.*

Search Function

Available for AVRCP Ver. 1.4 only.
The displayed list differs with the connected BLUETOOTH device.

Touch [🔍 (Search)] during playback.
Select the track, etc., you want to listen to from the displayed list.

- *Operations may differ depending on the connected BLUETOOTH compatible device.*

Auxiliary Device (Optional)

Operating Auxiliary Devices (Optional)

To operate devices connected to the AUX terminals of ICS-X7, follow the procedure described below.

- *Set AUX In to "On." Refer to "Setting the AUX Mode" (page 31).*
- *Depending on the connected unit, the onscreen buttons may not work, or their operation may differ.*

⚠ WARNING

It is dangerous (and illegal in many states) for the driver to watch TV/video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.

Install the ICS-X7 correctly so that the driver cannot watch TV/video unless the vehicle is stopped and the emergency brake is applied.

If the ICS-X7 is not installed correctly, the driver will be able to watch TV/video while driving the vehicle and may be distracted from looking ahead and cause an accident. The driver or other people could be severely injured.

- *If you try to activate the auxiliary device while driving, the display will show the warning-Picture off for your safety.*

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [AUX1]*1, [AUX2]*1 or [AUX3]*2.**
The AUX mode screen is displayed.

*1 *The name which is given as the mode name in "Setting the Primary AUX Name" (page 31) and "Setting the Secondary AUX Name" (page 31) is displayed.*

*2 *When "Setting the AUX3" (page 32), AUX3 appears when setting "AUX" only.*

AUX Operation Screen Display During Video File Playback

Touch the screen.
The AUX operation screen is displayed.

■ **Example for AUX1, AUX2, AUX3, DVD, Game mode display**

① [Audio]
Calls up the Audio Setup screen. (See "Audio Setup Operation" on page 18)

② [Display]
Calls up the Display Setup screen. (See "Display Setup Operation" on page 23)

- The operation screen changes to the visual screen in the AUX mode for 5 seconds after an operation has been performed. To hide the AUX operation screen, touch the video display area.

Touch the display panel to display the operation screen again.

- *Setting the AUX name for EXT.DVD, DVD-CHG and DVB-T mode displays their individual operation switches and enables operation. Refer to "Setting the Primary AUX Name" (page 31) and "Setting the Secondary AUX Name" (page 31).*

Operating an External DVD Player

To operate an External DVD player (Optional), set "Setting the Primary AUX Name" (page 31) or "Setting the Secondary AUX Name" (page 31) to "EXT.DVD."

Change to the External DVD Mode

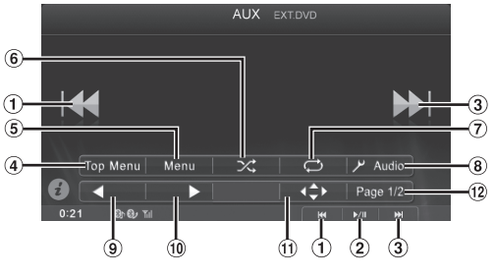
1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [EXT.DVD].**
The display shows the EXT. DVD mode screen.

About the DVD Operation Screen

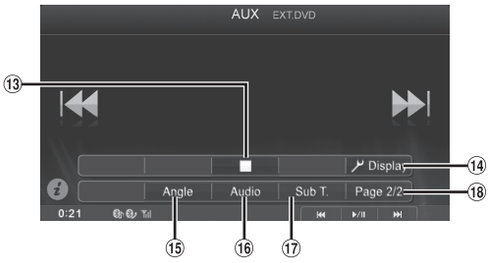
When the external DVD player playback screen is displayed, you can touch the screen to display the operation screen. For details on how to operate, refer to the Owner's Manual of the connected DVD player.

■ External DVD player display example 1/2 (Info mode)



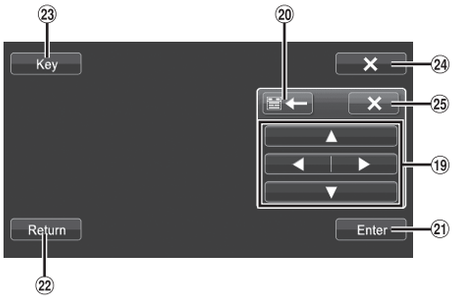
① [|◀◀], Media Control button 1(|◀◀)
Touch the switch to go back to the beginning of the current chapter/track/file. Touch the switch once more to find the beginning of the previous chapter/track/file. Touch and hold to fast reverse.
② Media Control button 2(▶/❚❚)
Switches between play and pause.
③ [▶▶|], Media Control button 3(▶▶|)
Touch the switch to advance to the beginning of the next chapter/track/file. Touch and hold to fast forward.
④ [Top Menu]
Calls up the Top Menu screen.
⑤ [Menu]
Calls up the Menu screen.
⑥ [⤮]
Starts/Stop M.I.X. play.
⑦ [⟲]
Starts/Stop repeat play.
⑧ [🔧 Audio]
Calls up the Audio Setup screen. (See "Audio Setup Operation" on page 18)
⑨ [◀]
Switches the programme/playlist/folder down.
⑩ [▶]
Switches the programme/playlist/folder up.
⑪ [◀▲▼▶]
Calls up the menu operation mode.
⑫ [Page 1/2]
Changes the operation screen.

■ External DVD player display example 2/2 (Info mode)



⑬ [■]
Touching during play initiates a pre stop. Touching again stops play.
⑭ [🔧 Display]
Calls up the Display Setup screen. (See "Display Setup Operation" on page 23)
⑮ [Angle]
Switches angle.
⑯ [Audio]
Switches audio.
⑰ [Sub T.]
Switches sub titles.
⑱ [Page 2/2]
Changes the operation screen.

■ Menu operation mode screen display example



⑲ [▲], [◀], [▼], [▶]
Moves menu cursor.
⑳ [▤◀], [▶▤]
Moves key panel location.
㉑ [Enter]
Determines the selected item.
㉒ [Return]
Returns to the previous item/screen.
㉓ [Key]
The menu operation mode will be displayed.
㉔ [✕]
Closes menu operation mode.
㉕ [✕]
Closes key panel.

Operating an External DVD Changer

To operate an External DVD changer (Optional), set “Setting the Primary AUX Name” (page 31) or “Setting the Secondary AUX Name” (page 31) to “DVD-CHG..”

Change to the External DVD Changer Mode

1 **Press the Home button.**
The Home screen is displayed.

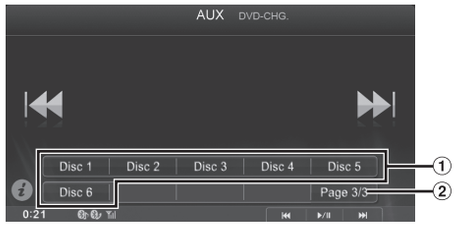
2 **Touch [DVD-CHG.].**
The display shows the DVD-CHG. mode screen.

About the DVD Changer Operation Screen

When the External DVD changer playback screen is displayed, you can touch the screen to display the operation screen. For details on how to operate, refer to the Owner’s Manual of the connected DVD changer.

- *The DVD-CHG. operation mode screen 1/3, 2/3, and the Menu operation mode screen are the same as the external DVD player operation screen. Refer to ”Operating an External DVD Player.”*

■ External DVD changer display example 3/3 (Info mode)



① [Disc1]-[Disc6]
Selects a Disc.
② [Page 3/3]
Changes the operation screen.

Operating the Mobile Digital TV Receiver (DVB-T)

To operate the Mobile Digital TV Receiver (DVB-T) (Optional), set “Setting the Primary AUX Name” (page 31).

Changing to the Mobile Digital TV Receiver (DVB-T) Mode

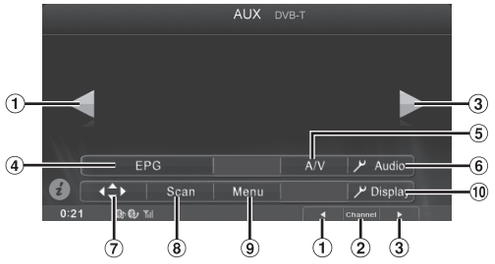
1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [DVB-T].**
The display shows the DVB-T mode screen.

About the DVB-T Operation Screen

When you touch the screen in the DVB-T mode, the operation screen is displayed. For details on how to operate, refer to the Owner’s Manual of the connected Digital TV Receiver (DVB-T).

■ Menu operation mode screen display example



① [◀], Media Control button 1 (◀)
Switches the Channel number/ Favorite channel number down.
② Media Control button 2 (Channel or FAV)
Switches between the Channel mode and the Favorite channel mode.
③ [▶], Media Control button 3 (▶)
Switches the Channel number / Favorite channel number up.
④ [EPG]
Call up the Electronic Programme Guide (EPG).
⑤ [A/V]
Switches the source.
⑥ [Audio]
Calls up the Audio Setup screen. (See “Audio Setup Operation” on page 18)
⑦ [◀▲▶]
Call up the menu operation mode.
⑧ [Scan]
Touch the switch to start the scan procedure.
⑨ [Menu]
Call up the menu screen.
⑩ [Display]
Calls up the Display Setup screen. (See “Display Setup Operation” on page 23)

Operating a TV

To operate a TV Receiver (TV) (Optional), set “Setting the Primary AUX Name” (page 31) or “Setting the Secondary AUX Name” (page 31) to “TV.”

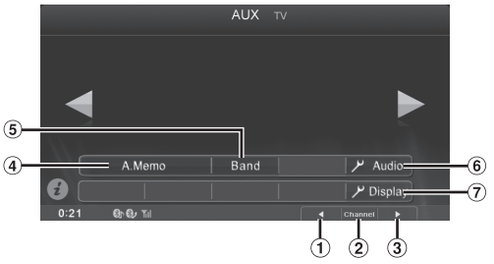
Change to the TV Mode

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [TV].**
The display shows the TV mode screen.

About the TV Operation Screen

When the TV playback screen is displayed, you can touch the screen to display the operation screen. For details on how to operate, refer to the Owner’s Manual of the connected TV.



① [◄], [◄◄], Media Control button 1 (◄, ◄◄)
Switches the Channel number / Preset channel / frequency down.
② Media Control button 2 (Channel or PRESET or MANUAL)
Switches amongst Channel mode, Preset mode, and Manual mode.
③ [►], [►►], Media Control button 3 (►, ►►)
Switches the Channel number / Preset channel / frequency up.
④ [A.Memo]
The tuner automatically seeks and stores stations.
⑤ [Band]
Switches the band.
⑥ [Audio]
Calls up the Audio Setup screen. (See “Audio Setup Operation” on page 18)
⑦ [Display]
Calls up the Display Setup screen. (See “Display Setup Operation” on page 23)

Camera Operation (Optional)

When an optional camera is connected, the view video of camera can be output to the monitor.
Depending on your camera, please choose the camera type first. For details, refer to "Setting the Camera Input" (page 30).

Rear camera:
If an HCE-C305R*/HCE-C300R/HCE-C200R/HCE-C115/HCE-C105 camera is connected, when the vehicle is reversed, the rear camera view (guide marks for vehicle width and available distance) is displayed automatically on the screen of this unit.
Other camera:
Set when connecting to a camera other than the Rear camera, such as a room camera and side camera.

* *When connecting to HCE-C305R, calibration must be performed. For details, refer to "Calibration when Connected to HCE-C305R" (page 47) and "Calibration" in the owner's manual of HCE-C305R.*

Rear Camera Operation

Set "AUX Camera" to "Rear." Refer to "Setting the Camera Input" (page 30).

Displaying the Rear View Video while the Car is in Reverse

1 **Shift the gear lever to the reverse (R) position.**
The rear view image is displayed while the car remains in reverse.

2 **If you shift the gear lever to a position other than reverse (R), the monitor returns to the previous screen.**

- *Never depend solely on the camera when backing up. Always turn and look and only use the camera for additional assistance.*
- *This function is effective when the reverse wire is properly connected.*

Guide Display ON/OFF Setting

1 **Touch the screen when the image from the camera is displayed.**
The operation screen is displayed on the screen.
- *After a 5-second time-out, the operation screen returns to the camera display screen.*

2 **Touch [Guide OFF] on the Rear camera display screen.**
The guide disappears, and then the [Guide OFF] switch changes to [Guide ON].

3 **Touch [Guide ON] to turn on the guide.**

Adjusting the Caution Display Location

1 **Touch the screen when the image from the camera is displayed.**
The operation screen is displayed on the screen.
- *After a 5-second time-out, the operation screen returns to the camera display screen.*

2 **Touch [Caution ▲▼].**

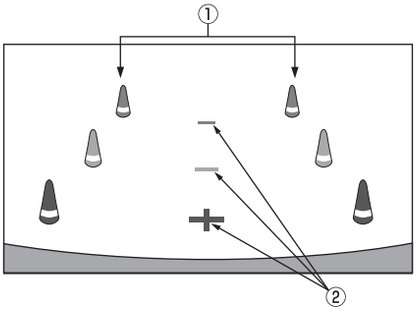
- *For each touch, the caution location moves to the top or bottom of the screen.*

About the Rear Camera Guide

To display the guide, set "Guide Display ON/OFF Setting" (page 45) to On. Also, to adjust the guide, refer to "Adjusting the Rear Camera Guide" (page 30). You can also turn off the guide in the Rear camera display screen.

■ Indication mark meaning

When the car is put into reverse gear, the monitor switches to the rear view camera image. Guides appear to help visualise the car's width and distance from the rear bumper.



① Car width extension marks (red, yellow and green in order of distance)
If properly calibrated, the marks indicate the car's width. This helps guide the car's path when backing up in a straight line.

The marks represent the distance from the rear of the car (from the rear end of the bumper).
- The marks do not move in synchronisation with the steering wheel.

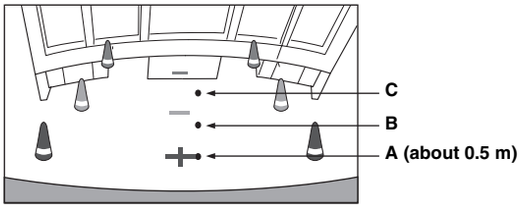
② Distance guidance marks
The marks represent the distance from the rear of the car (from the rear end of the bumper).
- The marks do not move in synchronisation with the steering wheel.
- Each centre position of the mark represents about 0.5 m (red), about 1 m (yellow) and about 2 m (green) behind.

- *Depending on the condition of the car or road surface, the range of vision may vary.*
- *The camera has a limited range of vision. Objects at extreme angles to the camera (e.g. under the bumper or at opposite ends of the bumper) may not be in the its field-of-vision.*
- *The rear camera image may have a tint which is different from the actual surroundings.*
- *Depending on the car, the guidance may deviate to the right or left. This is not a malfunction.*

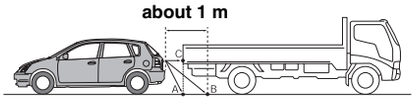
■ Distance guidance mark

The distance guides represent the ground level distance from the rear bumper. It is difficult to accurately estimate the distance to objects above ground level.

<Screen>



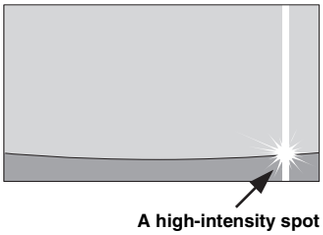
<Positions of A, B and C>



In the screen, according to the distance guidance marks, the truck seems to be parked about 1 m away (at the position B). In actual fact, however, if you reversed to position A, you would collide with the truck.
In the screen, positions A, B and C seem to be located in order of proximity. However, in actual fact, the position A and C are the same distance, and B is farther away than positions A and C.

- *The car width extension mark represents the distance to the road surface. The distance to an object on the road is not accurately represented by the guides.*
- *In the following conditions, screen visibility may be impaired. This is not a malfunction.*
  - *When it is dark (during the night, etc.).*
  - *Under very high or very low temperature conditions.*
  - *When water drops adhere to the camera, or when the humidity is high (such as rainy weather, etc.).*
  - *When foreign bodies (such as mud, etc.) adhere to the camera or its peripheral area.*
  - *When sunlight or headlights directly strike the camera lens.*
  - *When a CCD camera is connected, smearing* may occur. This phenomenon is peculiar to CCD cameras.*

* ***Smear phenomenon:***
A phenomenon which occurs when a high-intensity spot (such as a reflection of the sunlight on a car body) is shot by the camera. The picture below is an example of 'vertical smear' common to CCD cameras.

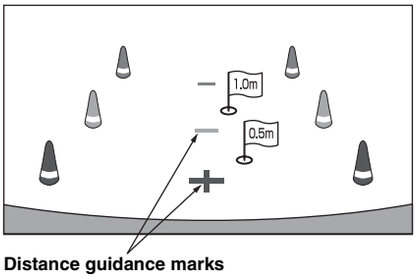


Error between the screen and the actual road surface

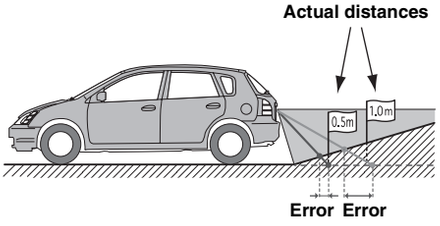
In the following conditions, errors are produced between the screen guidance and the actual road surface. (The illustrations represent a case when the camera is installed in the standard position.)

■ **When there is a steep upward slope behind the car (example)**

<Screen>



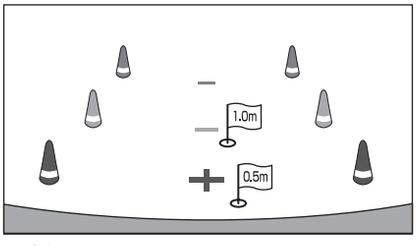
<Situation of the car>



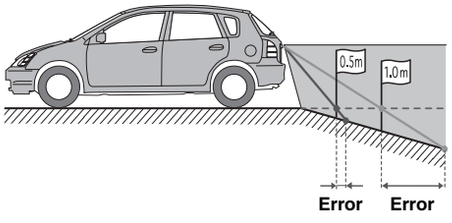
The distance guidance mark represents the distance to a flat road surface. Therefore in the case of an upward slope behind the car, the distance guides are displayed closer to the rear bumper than the actual distance. For example, if there is an obstacle on the upward slope, it may appear farther away than its actual position.
Also, an error may occur between the guidance and the actual path of the car on the road surface.

■ **When there is a steep downward slope behind the car (example)**

<Screen>



<Situation of the car>



In the case of a downward slope behind the car, the distance guides are displayed farther from the rear bumper than the actual distance.
If there is an obstacle on the downward slope, it seems closer than its actual position.
Also, an error may occur between the guidance and the actual path of the car on the road surface.

Other Camera Operation

Set “OTHER” for “AUX Camera” (page 30).

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Other Camera].**

About the Adjustment of the Caution Display Location

The Caution display location for other cameras can be adjusted. Refer to “Adjusting the Caution Display Location” (page 45) for the operations.

Calibration when Connected to HCE-C305R

Obstacle detection performance adjustment and guidance mark settings of HCE-C305R (ACTIVE VIEW™ REAR CAMERA SYSTEM) require that camera installation information be entered and calibration performed. If camera information is not entered, accurate detection will not be possible, so be sure to perform calibration. For details on calibration, refer to “Calibration” in the owner’s manual of HCE-C305R. To perform calibration with the supplied switch, refer to “Performing Calibration” in the owner’s manual of HCE-C305R. When connected to this unit, you can perform operations via the screen of this unit.

About the Camera Settings

Before performing calibration, set the camera. Set “AUX Camera” to “Rear.” Refer to “Setting the Camera Input” (page 30).

USB Memory (Optional)

You can play back music files (MP3/WMA/AAC) and video files (DivX®) stored in a USB memory device on the internal player of this system.

- *If the first file played is a music file, the mode will be the music play mode. If the first file played is a video file, the mode will be the video play mode. Also, the mode changes by selecting "Music" or "Video" in step 2 in Search Function. Refer to "Searching for a Desired Song" (page 49).*

■ About creating a tag information library

You can scan music files in a USB memory device and create a library of tag information in this unit. Library creation starts when the USB memory device is connected. The time it takes to create the library depends on the number of files in the USB memory device, but it may take several minutes.

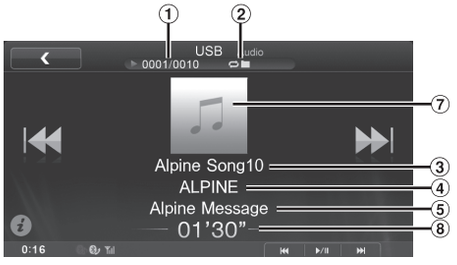
About operations during library creation

- *"Tag Search" (page 50) does not work properly while a library is being created.*
- *The order in which songs are played during library creation may differ from the order in the USB memory device.*

USB Audio

■ Display example for the USB Audio main screen

Simple mode



Info mode

① Current track no./Total song no.
② Status Indicator
The Indicator displays during Repeat and M.I.X. playback.
③ Song title
④ Artist title
⑤ Album title
⑥ Next track (song) title
⑦ Artwork display
⑧ Elapsed time
⑨ Audio Setup button (see "Audio Setup Operation" on page 18)

Playback

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [USB].**
The USB mode is activated and the display changes to the USB screen.

3 **Touch [|◀◀] or [▶▶|] or to select the desired track (file).**

Returning to the beginning of the current track (file):
Touch [|◀◀].

Fast reverse :
Touch and hold [|◀◀].

Advancing to the beginning of the next track (file) :
Touch [▶▶|].

Fast forward :
Touch and hold [▶▶|].

4 **To pause playback, press Media Control button 2 (▶/II).**
Pressing **Media Control button 2** (▶/II) again will resume playback.

- *The same operations can be performed by pressing Media Control buttons 1 or 3. Refer to "Using the Media Control buttons" (page 10).*
- *Any file protected by DRM (Digital Rights Management) copy protection, cannot be played back on this unit.*
- *The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.*
- *If there is tag information, artist name/album name/track name is displayed.*
- *ID3 tag/WMA tag*
If an MP3/WMA/AAC file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed (e.g., song name, artist name, and album name).

Repeat Play

Operation differs depending on whether the most recent song search was a Tag Search or a Folder/File Search.

Touch [ ] during playback.
The repeat mode switches every time the button is touched.

Folder/File Search mode:

Repeat → Repeat Folder* → (OFF) → Repeat

Tag Search mode:

Repeat → (OFF) → Repeat

* *Only files in a folder are repeatedly played back.*
- *If the Repeat Play mode is activated during M.I.X. playback, the M.I.X. mode will be cancelled.*

Random Play (M.I.X.)

Operation differs depending on whether the most recent song search was a Tag Search or a Folder/File Search.

Touch [ ] during playback.
The tracks (files) will be played back in a random sequence.
To cancel M.I.X. play, touch [ ].

Folder/File Search mode:

M.I.X. Folder*1 → M.I.X. File → (OFF) → M.I.X. Folder*1

Tag Search mode:

M.I.X. Songs*2 → (OFF) → M.I.X. Songs*2

*1 *Only files in a folder are played back in random sequence.*
*2 *M.I.X. Songs randomly plays back songs within a selected category (playlist, album, etc.). The songs within the category are played just once until all songs have been played.*
- *If the M.I.X. mode is activated during Repeat playback, the Repeat Play mode will be cancelled.*
- *If you select a track by using the search mode, the M.I.X. play mode will be cancelled.*

Random Play (M.I.X. ALL)

This operation is available only if the most recent song search was a Tag Search.

Touch [ALL] during playback.
The tracks (files) on the USB memory will be played back in a random sequence.

To cancel M.I.X. play, touch [ALL].

M.I.X. ALL* → (OFF) → M.I.X. ALL*

* *All songs in the USB memory are played back in random sequence. Any one song does not play back again until all songs have been played back.*

Searching for a Desired Song

ICS-X7 can carry out 2 kinds of searches.

File/Folder Name Search

1 **Touch [(Search)] during playback.**

2 **Touch [Music].**
The search mode is activated.

3 **Touch [Folders].**
The folder name list screen is displayed.

Folder Name Search Mode

4 **Touch [▶] of the desired folder.**
The first file in the selected folder is played back.

File Name Search Mode

4 **Touch the desired folder name.**
The file name of the selected folder is displayed.

5 **Touch the desired file name.**
The selected file is played back.

- *To return to the previous hierarchy, touch [<].*
- *For details on how to scroll through the list, refer to "Selecting an Item in a List" (page 15).*
- *After selecting a folder via a Folder name search, touch [<] on the main screen to display the folder search screen.*
- *After selecting a file via a File name search, touch [<] on the main screen to display the file search screen.*

Tag Search

By using file tag information and keeping these songs organised in playlists, this unit's search functions will ease song searches in large libraries.
Each music category has its own individual hierarchy. Use the Playlists/Artists/Albums/Songs/Genres/Composers search mode to narrow searches based on the table below.

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4
Playlists	Songs	—	—
Artists	Albums	Songs	—
Albums	Songs	—	—
Songs	—	—	—
Genres	Artists	Albums	Songs
Composers	Albums	Songs	—

For example: Searching by Artist name
The following example explains how an ARTISTS search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

■ Searching by artist name

1 Touch [(Search)] during playback.

2 Touch [Music].
The search mode screen appears.

3 Touch [Artists].
The Artists search screen is displayed.

4 Select the desired artist.

To Play Back the Artist Directly

1 Touch [▶] of the artist's name.
All songs of the selected artist are played back.

To Search for the Album of the Artist

1 Touch the desired artist name.
The Albums search screen of the selected artist is displayed.
2 Touch [▶] of the desired album's name.
All songs of the selected album are played back.

To Search for a Song in the Album of the Artist

1 Touch the desired artist's name.
All albums of the selected artist are displayed.
2 Touch the desired album's name.
All songs of the selected album are displayed.
3 Touch the desired song's name.
The selected song is played back.

- *A Percent search function is available. Refer to "Percent Search Function" (page 57).*
- *For details on how to scroll through the list, refer to "Selecting an Item in a List" (page 15).*
- *After selecting a file via a Tag search, touch [<] on the main screen to display the search screen. The hierarchy level you selected last in the search mode is displayed.*

Direct Up/Down Function

This operation is available only if the most recent song search was a Tag Search.
Playlist/Artist/Album/Genre/Composer can be easily changed.
For example, if you listen to a song from a selected album, the album can be changed.

Touch [◀] or [▶] to select the desired Playlist/Artist/Album/Genre/Composer.

- *If an album is selected from an artist search, the album can be searched.*
- *For details on icon display, refer to "Direct Up/Down switch icon:" (page 57).*
- *If search selection mode is not activated, Direct Up/Down Function is not possible.*
- *During M.I.X. playback, this operation is not possible.*

Select the Desired Folder (Folder up/down)

This operation is available only if the most recent song search was a Folder/File Search.
If you listen to a file from a selected folder, the folder can be changed.

Touch [◀■] or [■▶] to select the folder.

- *During M.I.X. playback, this operation is not possible.*

About MP3/WMA/AAC

CAUTION
Except for private use, duplicating audio data (including MP3/WMA/AAC data) or distributing, transferring, or copying it, whether for free or for a fee, without permission of the copyright holder is strictly prohibited by the Copyright Act and by international treaty.

What is MP3?

MP3, whose official name is "MPEG Audio Layer 3," is a compression standard prescribed by the ISO, the International Standardisation Organisation and MPEG which is a joint activity institution of the IEC.

MP3 files contain compressed audio data. MP3 encoding is capable of compressing audio data at extremely high ratios, reducing the size of music files to as much as one-tenth their original size. This is achieved while still maintaining near CD quality. The MP3 format realises such high compression ratios by eliminating the sounds that are either inaudible to the human ear or masked by other sounds.

What is AAC?

AAC is the abbreviation for "Advanced Audio Coding," and is a basic format of audio compression used by MPEG2 or MPEG4.

What is WMA?

WMA, or "Windows Media™ Audio," is compressed audio data. WMA is similar to MP3 audio data.

Method for creating MP3/WMA/AAC files

Audio data is compressed using software with MP3/WMA/AAC codecs. For details on creating MP3/WMA/AAC files, refer to the user's manual for that software.
MP3/WMA/AAC files that are playable on this device have the file extensions.
MP3: "mp3"
WMA: "wma" (ver. 7.x, 8.x, 9.x are supported)
AAC: "m4a"
WMA is not supported for the following files, Windows Media Audio Professional, Windows Media Audio 9 Voice or Windows Media Audio 9 Pro Lossless.

There are many different versions of the AAC format. Confirm that the software being used conforms to the acceptable formats listed above. It's possible that the format may be unplayable even though the extension is valid.
Playback of AAC files encoded by iTunes is supported.

Supported playback sampling rates and bit rates

MP3
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
Bit rates: 8 - 320 kbps

WMA
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 22.05 kHz, 16 kHz, 11.025 kHz, 8 kHz
Bit rates: 48 - 320 kbps

AAC
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
Bit rates: 16 - 320 kbps

This device may not play back correctly depending on sampling rates.

ID3 tags/WMA tags

This device supports ID3 tag v1.0, v1.1, v2.2, v2.3, v2.4, and WMA tag Ver.1.x. If tag data is in an MP3/WMA/AAC file, this device can display the title (track title), artist name, and album name ID3 tag/WMA tag data (maximum 64 characters).
For non-supported characters, blank character, "No Title" is displayed.
The number of characters may be limited, or not correctly displayed, depending on the tag information.

Playing back MP3/WMA/AAC

MP3/WMA/AAC files are prepared, then using USB memory.
- Maximum numbers of playable files / folders
  USB memory: 10,000 files/folders (including Root Folder/ DivX® file)
- Largest playable file size: 512 MB

If a file/folder name is long, the maximum possible number of files may decrease.
- Both Audio and Video files are counted if their formats are playable on this unit.

Media supported

The media that this device can play back USB memory.

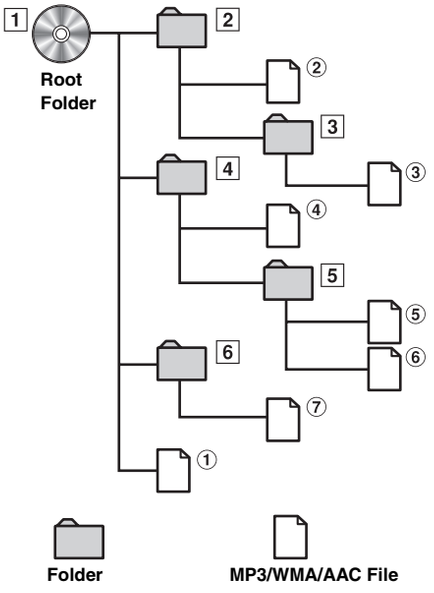
Corresponding File Systems

This device supports FAT 12/16/32.

The maximum nested folder depth is 8 (including the root directory). File names are limited to 256 characters (including the extension).
Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and '_' (underscore).

Order of files

The playback order of the folders and files is as follows. (The following numbers may differ from actually displayed numbers.)



Terminology

Bit rate

This is the "sound" compression rate specified for encoding. The higher the bit rate, the higher the sound quality, but also the larger the files.

Sampling rate

This value shows how many times per second the data is sampled (recorded). For example, music CDs use a sampling rate of 44.1 kHz, so the sound is sampled (recorded) 44,100 times per second. The higher the sampling rate, the higher the sound quality, but also the larger the volume of data.

Encoding

Converting music CDs, WAVE (AIFF) files, and other sound files into the specified audio compression format.

Tag

Song information such as track titles, artist names, album names, etc., written into MP3/WMA/AAC files.

Root folder

The root folder (or root directory) is found at the top of the file system. The root folder contains all folders and files. It is created automatically for all USB memory.

USB Video

■ **Display example for the USB Video main screen**

Simple mode

Info mode

① File no.
② Total file no.
③ Information display
Title name/Artist name/Audio signal output/Subtitle
④ Elapsed time
⑤ Audio Setup button (see “Audio Setup Operation” on page 18)
⑥ Display Setup button (see “Display Setup Operation” on page 23)

Playback

⚠ WARNING
It is dangerous for the driver to watch the USB Video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.

Install the ICS-X7 correctly so that the driver cannot watch USB Video unless the vehicle is stopped and the emergency brake is applied.

If the ICS-X7 is not installed correctly, the driver will be able to watch the USB Video while driving the vehicle and may be distracted from looking ahead causing an accident. The driver or other people could be severely injured.

⚠ Caution
- **If you switch the power or Ignition key OFF or change sources during playback, playback will continue where you left off when you resume playback.**
- **If you try to perform an invalid operation, the following mark is displayed on the monitor screen: ⃠**

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [USB].**
The display shows the USB Video mode screen.
The unit starts to play the USB Video.

- *Refer also to “About DivX®” (page 54).*
- *While reading a DivX® file, the fast-forwarding/fast-reversing and repeat functions, etc. cannot be used.*
- *A DivX® file that exceeds 4GB cannot be played back.*

Stopping Playback (PRE STOP)

Touch the stop button during playback to stop playback. That position is stored in the memory.

1 **Touch [■] during playback.**
“■” indicator is displayed.

2 **Press Media Control button 2 (►/II) in the PRE STOP mode.**
Playback starts from the position at which it was stopped.

Stopping Playback

Touch [■] twice or touch and hold [■] for at least 2 seconds during playback.
"■" indicator is displayed, and playback stops.

- *Playback starts from the beginning when **Media Control button 2** (▶/II) is pressed while playback is stopped.*

Fast-forwarding/Fast-reversing

1 **During playback, touch and hold [I◀◀] (Fast-reverse) or touch and hold [▶▶I] (Fast-forward).**
Touch and hold for more than 1 second to forward/reverse at 8x speed.
Every time you touch [I◀◀]/[▶▶I] during fast- reverse/ fast- forward, the speed changes as follows: 8x → 16x → 32x → 8x.
  - *For a DivX® file that does not contain index information, the fast forward and the reverse option is not available.*

2 **Pressing Media Control button 2 (▶/II) to return to normal playback.**

- *The same operations can be performed by pressing **Media Control buttons 1** or **3**. Refer to "Using the Media Control buttons" (page 10).*
- *No sound is played back during fast-forwarding/fast-reversing.*

Finding the Beginnings of Files

During playback, touch [I◀◀] or [▶▶I].
The file switches each time the button is touched, and playback of the selected file starts.

▶▶I: Touch this to start playback from the beginning of the following file.
I◀◀: Touch this to start playback from the beginning of the current file.

- *The same operations can be performed by pressing **Media Control buttons 1** or **3**. Refer to "Using the Media Control buttons" (page 10).*

Playing Still Frames (Pausing)

1 **During playback, Press Media Control button 2 (▶/II).**

2 **Press Media Control button 2 (▶/II) to resume playback.**

- *No sound is played during the still frame mode.*
- *The image or sound may stop temporarily when playback starts from the pause mode. This is not a malfunction.*

Selecting Folders

Touch [◀■] or [■▶] to select the folder.

- *Touch [◀■] to play from the first file of the previous folder.*
  Touch [■▶] to play from the first file of the next folder.

Repeat Playback

Use this function to play the Video files titles repeatedly.

Touch [🔁].
The repeat mode switches every time the button is touched.

🔁 (File)	The file is played repeatedly.
🔁 ■ (Folder)	The folder is played repeatedly.
(Repeat All)	The USB memory is played repeatedly.

Searching for a Desired Video File

You can select a video file from the list screen.

1 **Touch [(Search)].**
The search mode is activated.

2 **Touch [Video].**
The folder list screen appears.

Folder Name Search Mode

3 **Touch [▶] in the desired folder.**
The first file in the selected folder is played back.

File Name Search Mode

3 **Touch the desired folder name.**
The File name of the selected folder is displayed.

4 **Touch the desired file name.**
The selected file is played back.

- *To return to the previous hierarchy, touch [<].*
- *For details on how to scroll through the list, refer to "Selecting an Item in a List" (page 15).*
- *After selecting a folder via a Folder name search, touch [<] on the main screen to display the folder search screen.*
- *After selecting a file via a File name search, touch [<] on the main screen to display the file search screen.*

Switching the Audio Tracks

Video files with multiplex audio or audio languages allow switching the sound during playback.

Touch [Audio].
The sound switches between the alternate audio tracks recorded on the file every time the button is touched.

- *There may be a delay before the selected alternate track begins to play.*

Switching the Subtitles (Subtitle Language)

With USB Videos on which multiple subtitle languages are recorded, the subtitle language can be switched during playback; moreover, subtitles can be hidden.

Touch [Sub T.].
Touching this button repeatedly selects sequentially the subtitle languages recorded on the file, and then turns the subtitles OFF.

- *There may be a delay before the selected subtitle appears.*
- *For some Video files, the subtitles will be displayed even when this is set to OFF. However, the subtitle language may differ depending on the Video files.*

About DivX®

DivX® is a codec (software) to compress moving images while maintaining image quality using a highly advanced compression ratio and operating speed.

- *Official DivX® Certified product*

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.
ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

Media supported
The unit can play back USB memory device that are recorded in the DivX® mode.

Corresponding extension
"avi," "divx"

Video Codec
DivX® versions 3, 4, 5, and 6 (versions 5 handle both interlaced and progressive)

Audio Codec

MPEG1 Layer2 (MP2)	32 to 384 kbps
MPEG1 Layer3 (MP3)	32 to 320 kbps
MPEG2 Layer2 (MP2)	8 to 160 kbps
MPEG2 Layer3 (MP3)	8 to 160 kbps
Dolby Digital	32 to 448 kbps

The optimum size for DivX® playback is as follows:

Screen Size: 96 to 720 pixel (horizontal) × 96 to 576 pixel (vertical)

With an aspect ratio other than 16:9, black bars may be displayed on the left and right sides, or at the top and bottom of the screen.

Image bit rate: "average 4 Mbps, Peak 8 Mbps"
Home Theater Profile supported

iPod/iPhone (Optional)

An iPod/iPhone can be connected to this unit by using the cable KCU-461iV (sold separately). You can connect a video-capable iPod to enjoy video as well as music.
When the ICS-X7 is connected by the above cable, the controls on the iPod are disabled.
When you change to the App Direct mode, audio/video content displayed in an iPhone/iPod touch can be analog output to the ICS-X7.

- *Internet or telephone functions, etc., of the iPhone or iPod touch are not controllable from the unit, but these functions can be controlled using the iPhone or iPod touch itself.*
- *To watch the video screen of the file in the iPod/iPhone, the parking brake must be engaged.*
- *For automatic transmission vehicles, place the transmission lever in the Park position.*

About iPod/iPhone models usable with this unit

- The following devices have been tested and shown to work with this unit. Correct function of earlier versions cannot be guaranteed.
  iPod nano 6th generation 8GB/16GB: Ver.1.1
  iPod touch 4th generation 32GB/64GB: Ver.4.3.1
  iPod touch 3rd generation 32GB/64GB: Ver.4.3.1
  iPod nano 5th generation(video camera) 8GB/16GB: Ver.1.0.2
  iPod classic(Late2009) 160GB: Ver.2.0.4
  iPod touch 2nd generation 8GB/16GB/32GB/64GB: Ver.4.3.1
  iPod nano 4th generation(video) 8GB/16GB: Ver.1.0.4
  iPod touch 1st generation 8GB/16GB/32GB: Ver.3.1.3
  iPod nano 3rd generation(video) 4GB/8GB: Ver.1.1.3
  iPod classic 80GB/160GB: Ver.1.1.2
  iPod classic 120GB: Ver.2.0.1
  iPod nano 2nd generation(aluminum) 2GB/4GB/8GB: Ver.1.1.3
  iPod 5th generation(video) 60GB/80GB: Ver.1.3
  iPod 5th generation(video) 30GB: Ver.1.3
  iPod nano 1st generation 1GB/2GB/4GB: Ver.1.3.1
- The following devices have been tested and shown to work with this unit. Correct function of earlier versions cannot be guaranteed.
  iPhone 4 16GB/32GB: Ver.4.3.1
  iPhone 3GS 8GB/16GB/32GB: Ver.4.3.1
  iPhone 3G 8GB/16GB: Ver.4.3.1
  iPhone 4GB/8GB/16GB: Ver.3.1.3
- For clarity in identifying your model of iPod, please see Apple's own document "Identifying iPod models" at http://support.apple.com/kb/HT1353.

⚠ WARNING

It is dangerous for the driver to watch video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.

Install the ICS-X7 correctly so that the driver cannot watch Video unless the vehicle is stopped and the emergency brake is applied.

If the ICS-X7 is not installed correctly, the driver will be able to watch the Video while driving the vehicle and may be distracted from looking ahead causing an accident. The driver or other people could be severely injured.

■ Display example for iPod/iPhone main screen (Info mode)

Audio mode

Video mode

App Direct mode

① Current song no./Total song no.
② Status Indicator
The Indicator displays during Repeat and Shuffle playback.
③ Artwork display
④ Song title/Episode title*
⑤ Artist title/Release Date*
⑥ Album title/Podcast title*
⑦ Next file (song) title
⑧ Elapsed time
⑨ Total playback time

* *Podcast mode*

** : *During audio-only playback of a video file in a Playlist, the Video icon is displayed.*
: *During audio-only playback of a music file in a video Playlist, the Music icon is displayed.*

The iPod/iPhone operation screen display during video file playback or App Direct mode

Touch the screen while the iPod/iPhone playback screen is displayed.

The iPod/iPhone operation screen is displayed.

- *The operation screen changes to the visual screen in the iPod mode for 5 seconds after an operation has been performed.*

Playback

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [iPod].**
The display shows the iPod mode screen.

3 **Touch [|◀◀] or [▶▶|] or to select the desired track (file).**

Returning to the beginning of the current track (file):
Touch [|◀◀].

Fast reverse :
Touch and hold [|◀◀].

Advancing to the beginning of the next track (file) :
Touch [▶▶|].

Fast forward :
Touch and hold [▶▶|].

4 **To pause playback, press Media Control button 2 (▶/II).**
Pressing **Media Control button 2** (▶/II) again will resume playback.

- *Operations can be performed in the same way by pressing **Media Control buttons 1** or **3**. Refer to "Using the Media Control buttons" (page 10).*
- *If a song is playing on the iPod/iPhone when it is connected to the ICS-X7, it will continue playing after the connection.*
- *An episode may have several chapters. The chapter can be changed by Pressing **Media Control button 1** or **Media Control button 3** or touching [|◀◀] or [▶▶|].*
- *If the artist, album or song name, created in iTunes, has too many characters, songs may not be played back when connected to the ICS-X7. Therefore, a maximum of 64 characters is recommended. The maximum number of characters for the unit is 64.*
- *Some characters may not be correctly displayed.*

Searching for a Music File

An iPod/iPhone can contain thousands of songs. For this reason, this unit can make various searches using the search function as shown below.
Using the Playlist/Artist/Album/Podcast/Audiobook/Genre/Composer/Song search mode's individual hierarchy, you can narrow down your search as shown in the table below.

<MUSIC Search Menu>

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4
Playlists	Songs	—	—
Artists	Albums	Songs	—
Albums	Songs	—	—
Songs	—	—	—
Podcasts	Episodes	—	—
Genres	Artists	Albums	Songs
Composers	Albums	Songs	—
Audiobooks	—	—	—

For example: Searching by Artist name
The following example explains how an ARTISTS search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

■ **Searching by artist name**

1 **Touch [🔍 (Search)] during playback.**

2 **Touch [Music].**
The search mode screen appears.

3 **Touch [Artists].**
The Artists search screen is displayed.

4 **Select the desired artist.**

To Play Back the Artist Directly

1 Touch [▶] of the artist's name.
All songs of the selected artist are played back.

To Search for the Album of the Artist

1 Touch the selected artist name.
The Albums search screen of the selected artist is displayed.
2 Touch [▶] of the desired album's name.
All songs of the selected album are played back.

To Search for a Song in the Album of the Artist

1 Touch the desired artist's name.
All albums of the selected artist are displayed.
2 Touch the desired album's name.
All songs of the selected album are displayed.
3 Touch the desired song's name.
The selected song is played back.

- *Touching [▶] of "ALL" will play back all songs in the list.*
- *Touching "ALL" will display the search list in the next hierarchy.*
- *A Percent search function is available. Refer to "Percent Search Function" (page 57).*
- *For details on how to scroll through the list, refer to "Selecting an Item in a List" (page 15).*

Searching for a Desired Video File

You can select a movie, music video, etc., from the list screen.

- *Video search mode depends on the iPod/iPhone. If the specification of the iPod/iPhone is changed, the search mode on this unit will also be changed.*

Examples for the video search mode

- Video Playlists
- Movies
- Music Videos, etc.

For example: Searching by Movie
The following example explains how a Movie search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

1 **Touch [🔍 (Search)] during playback.**

2 **Touch [Video].**
The Video search mode screen appears.

3 **Touch [Movies].**
The Movies search screen is displayed.

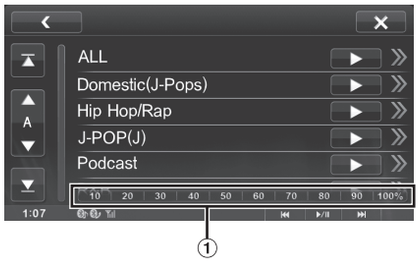
4 **Touch the desired movie.**
The selected movie is played back.

- *For details on how to scroll through the list, refer to "Selecting an Item in a List" (page 15).*

Percent Search Function

This search mode splits all listings, into 10 groups on the Percent search bar.
If you touch and hold the percentage area, the first character of the first index in each group on the percentage (10-100%) display.

■ **Display example for Albums search screen**



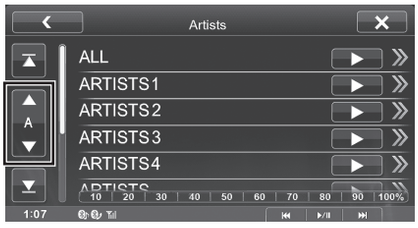
① Percent search bar

Percent Search Function:

In search mode, touch anywhere on the Percent search bar to step through items. The search list display also changes according to the selected song position.

Alphabet Skip Function

The unit is provided with a alphabet skip function for effective searching. When you use this function in the search mode, you can quickly search an artist or a song, etc.



Alphabet skip function:

The alphabet skip function is skipped to the next alphabet such as from A to B, B to C by touching [ALPHABET ▼]. You can also skip in reverse order such as from B to A by touching [▲ ALPHABET].

Direct Up/Down Function

If you touch [▶] of the album name in the search mode, this album will be played back repeatedly. To go to the previous or next Album, use the Direct Up/Down Function.

Touch [◀] or [▶] to select the desired Playlist/Artist/Album/Genre/Podcast/Composer.

Direct Up/Down switch icon

Direct Up/Down switch icon:

	Playlist
	Artist
	Album
	Podcast
	Genre
	Composer

- *You can use the Direct Up/Down Function during video file playback. The Direct Up/Down Function switches in the video mode are [◀] [▶].*
- *If you are searching for a song, this operation cannot be performed.*
- *If an album is selected from an artist search, the album can be searched.*
- *During shuffle playback, this operation is not possible.*

Search Position Memory

During iPod/iPhone playback, you can quickly move back up the selected hierarchy, a level at time.

Touch [<]. (ex. [< Playlists])
The hierarchy level you selected last in the search mode is displayed. Repeated touches return to each previous level up to the highest.

Repeat Play

Touch [🔁] to repeatedly play back the currently track.
The tracks (files) will be played repeatedly.
Touch [🔁] again to deactivate Repeat play.

Repeat → (OFF) → Repeat
🔁 🔁

Random Play (Shuffle)

Touch [⤮] during playback.
The files will be played back in a random sequence.
The Shuffle mode switches every time [⤮] is touched.

Shuffle Songs → Shuffle Albums → (OFF) → Shuffle Songs

Shuffle Albums: The songs on each album are played back in proper order. Upon completing of all the songs on the album, the next album is selected randomly. This continues until all albums have been played.

Shuffle Songs: Song shuffle randomly plays back songs within a selected category (playlist, album, etc.). The songs within the category are played just once until all songs have been played.

- *For details on the search mode, refer to "Searching for a Music File" (page 56).*

Random Play (Shuffle All)

All files in the iPod are played back in random sequence.

Touch [⤮ ALL] during playback.
The indicator "⤮ALL" lights, and the songs will be played back in random sequence.

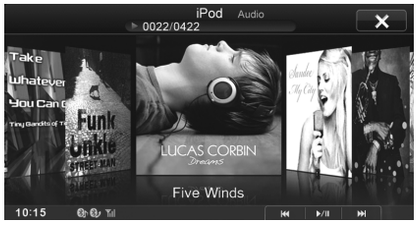
- *To cancel, set the Shuffle mode to Off. Refer to "Random Play (Shuffle)" (page 58).*

Displaying in Cover Flow

You can display the cover flow screen.
Songs can also be selected from artwork on the cover flow screen.

1 Touch artwork during play.

2 Slide the display horizontally with your finger.



By sliding the display, album artworks on the iPod/iPhone can be flipped through.

3 Touch the artwork of the file you wish to listen to.
You can touch the artwork displayed in the centre. The file for the selected artwork is played.

Changing to App Direct

App Direct lets you enjoy applications in an iPhone/iPod touch, displayed on the screen of the ICS-X7.

- *This function can be operated on the iPhone/iPod touch.*
- *In the App Direct mode, applications which can be operated on the unit, such as Music/Video, cannot be operated on an iPhone/iPod touch.*
- *Some applications can be operated on the ICS-X7.*
- *Whether audio or video is output depends on the application.*

1 Touch [App].
Audio/Video mode switches to App Direct mode, and the content selected on the iPhone/iPod touch is output.
- *While App Direct mode is set to ON, the App button is highlighted.*

2 Operate the iPhone/iPod touch, or operate the ICS-X7 by touching [⏮] [⏭] or pressing the Media Control buttons.
- *Available applications may differ, depending on the iPhone/iPod touch you are using.*
- *When the ignition key is turned to the OFF/ON position in the App Direct mode, or you reconnect the iPhone/iPod touch and switch to the Audio/Video mode, the ICS-X7 will play from the beginning of the audio data.*

3 To return to the Audio/Video mode, touch [App].
App Direct mode switches to the Audio/Video mode.

- *When returning to the Audio/Video mode, the file last played in the Audio/Video mode may not be played. The played file or playing position depends on the connected iPhone/iPod touch.*

MirrorLink™ Operation (Optional)

DISCLAIMER

ENABLED BY CONNECTIVITY FUNCTIONS OF THE MOBILE PHONE, THE MOBILE PHONE'S USER INTERFACES FOR MUSIC OR DRIVE ARE DISPLAYED DIRECTLY ON OUR HEAD UNIT WITH NO ALTERATION. ALPINE SHALL NOT BE RESPONSIBLE OR LIABLE TO USERS FOR ANY DAMAGES, LOSSES OR COSTS RELATED TO OR ARISING OUT OF THESE MOBILE PHONE INTERFACES.

Using MirrorLink™

MirrorLink is a standard for connecting provides for a connection between an ICS-X7 and a mobile phone. Using MirrorLink, you can display a displays mobile phone screen and allows you to operate your mobile phone applications via this unit.

- *Some applications may not be displayed or operated, depending on the connected mobile phone.*
- *If the mobile phone is locked, it cannot be operated from the unit.*
- *For details on compatible phones, refer to the Alpine website.*

When using MirrorLink, we recommend that you connect your mobile phone via both USB and BLUETOOTH.

- *For details on BLUETOOTH connection, refer to "Registering the BLUETOOTH Device" (page 26).*
- *If your mobile phone is connected via USB only, some functions may not operate normally. Make sure you also connect via BLUETOOTH.*

1 **Press the Home button.**
The Home screen is displayed.

2 **Touch [Mirror Mode], [Car Mode], [Navigation] or [Music].**
The screen for the selected mode is displayed.
- *After connecting to a mobile phone that is compatible with this unit, application icons will appear on the Home screen.*

3 **Press the Media Control button to operate the unit.**

- *The functions of the Media Control button differ, depending on the mode.*

■ Car Mode -1

Media Control buttons 1 to 3
Press: Returns to the previous screen.
Press: Displays the Home screen.
Press and hold: Switches the operation mode.
Press: Displays the menu screen.
Press and hold: Displays the Search screen.

■ Car Mode -2

Media Control buttons 1 to 3
Press: Returns to the previous screen.
Press: Displays the Application screen.
Press and hold: Switches the operation mode.
Press: Displays the Search screen.

■ Music Application Mode

Media Control buttons 1 to 3
Press: Track Up.
Press and hold: Fast forward.
Press: Play/Pause.
Press and hold: Switches the operation mode.
Press: Track Down.
Press and hold: Fast reverse.

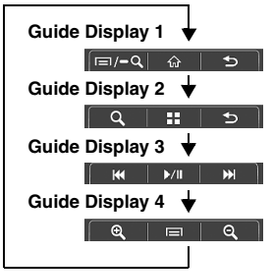
■ Navigation Mode

Media Control buttons 1 to 3
Press: Zooms out the display screen to give a wider view.
Press: Displays the Application screen.
Press and hold: Switches the operation mode.
Press: Zooms in the display screen to give a more detailed view.

- *Operable modes on this unit may differ from operations on your mobile phone, depending on the connected mobile phone.*

Switching the Media Control button Operation.

Press and hold the Media Control button 2 for at least 2 seconds, to select the operation mode.



- *In the Mirror mode/Car mode, you can change four patterns.*
- *In the Music Application mode, you cannot change the Guide Display.*
- *In Navigation mode, you can operate the system by using the touch panel only.*
- *A function that has been set to "Off" in the Media Control button Setup, is not displayed.*

Displaying the Mirror Mode

Applications in a mobile phone can be displayed on the ICS-X7 screen. Some applications may not be displayed, depending on the connected mobile phone.

Touch [Mirror Mode] on the Home screen.
The mobile phone screen is displayed on the ICS-X7 screen.

- *You cannot operate the Mirror mode while driving.*

Displaying the Car Mode

All automotive applications in a mobile phone are displayed on ICS-X7.

Touch [Car Mode] on the Home screen.
The display shows the Car mode screen.

- *If you have displayed a screen other than Car mode from the mobile phone, ICS-X7 will display the Home screen.*

Displaying the Navigation Mode

Touch [Navigation] on the Home screen.
The display shows the Navigation mode screen.

- *If you have displayed a screen other than Navigation mode from the mobile phone, ICS-X7 will display the Home screen.*

Displaying the Music Application Mode

Touch [Music] on the Home screen.
The display shows the Music application mode screen.

- *If you have displayed a screen other than Music Application mode from the mobile phone, ICS-X7 will display the Home screen.*

Information

Product Software Update

This product use software that can be updated through a USB memory device. Download the software from the Alpine website and update the product using the USB memory device.

Updating this product

Check the Alpine website for details on updating.

http://www.alpine-asia.com
http://www.alpine.com.au

In Case of Difficulty

If you encounter a problem, please turn the power off, then on again. If the unit is still not functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected, or then consult your authorised Alpine dealer.

Basic

No function or display.

- Vehicle's ignition is off.
  - If connected according to the instructions, the unit will not operate with the vehicle's ignition off.
- Improper power lead connections.
  - Check power lead connections.
- Blown fuse.
  - Check the fuse on the battery lead of the unit; replace with the proper value if necessary.
- Internal micro-computer malfunctioned due to interference noise, etc.
  - Press the RESET switch with a ballpoint pen or other pointed article.

No sound or unnatural sound.

- Incorrect setting of volume/balance/fader controls.
  - Readjust the controls.
- Connections are not properly or securely made.
  - Check the connections and firmly connect.

Screen not displayed.

- Brightness/Contrast control is set at the minimum position.
  - Adjust the Brightness/Contrast control.
- Temperature in the vehicle is too low.
  - Increase the vehicle's interior temperature to operation temperature range.
- Connections to the DVD, navigation system are not securely made.
  - Check the connections and firmly connect.
- The Parking Brake Lead is not connected.
- The Parking Brake is not engaged.
  - Connect the Parking Brake Lead, then engage the Parking Brake. (See page 68)

Movement of displayed picture is abnormal.

- Temperature in the vehicle is too high.
  - Allow the vehicle's interior temperature to cool.

Radio

Unable to receive stations.

- No antenna, or open connection in the antenna cable.
  - Make sure the antenna is properly connected; replace the antenna or cable if necessary.

Unable to tune stations in the seek mode.

- You are in a weak signal area.
  - Make sure the tuner is in DX mode.
- If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.
  - Check your antenna connections; make sure the antenna is properly grounded at its mounting location.
- The antenna may not be the proper length.
  - Make sure the antenna is fully extended; if broken, replace the antenna with a new one.

Broadcast is noisy.

- The antenna is not the proper length.
  - Extend the antenna fully; replace it if it is broken.
- The antenna is poorly grounded.
  - Make sure the antenna is grounded properly at its mounting location.
- The station signal is weak and noisy.
  - If above solution does not work, tune in another station.

If this Message Appears

Various messages are displayed on the screen during operation. In addition to the messages telling you the current status or providing guidance for the next operation, there are also the following error messages. If one of these error messages is displayed, carefully follow the instructions in the solution column.

System

Unable to operate while driving.

- A setup operation, etc., was carried out while the vehicle was running.
  - Move the vehicle to a safe location, stop, and engage the parking brake, then carry out this operation.

USB current error.

- Abnormal current is run to the USB connector device.
  - Turn the ignition key off, and then set to ON again.
  - Attempt to connect another iPod/iPhone/USB memory device.

Audio/Visual

Connected USB Device is not Supported.

- An iPod/iPhone that is not supported by the unit is connected.
  - Connect an iPod/iPhone that is supported by the unit.
  - Reset the iPod.
- A USB device that is not supported by the unit is connected.
  - Attempt to connect another USB memory device.
- Communication error.
  - Turn the ignition key off, and then set to ON again.
  - Check the display by reconnecting between the iPod/iPhone and the unit, using the iPod/iPhone cable.
  - Check the display by reconnecting between the USB memory device and the unit.
- Caused by the iPod/iPhone Software Version not being compatible with this unit.
  - Update the iPod/iPhone Software Version to be compatible with this unit.

- The iPod/iPhone is not verified.
  - Change another iPod/iPhone.

No data.
- There are no data in the iPod/iPhone.
  - Download data to the iPod/iPhone and connect to the ICS-X7.
- There are no data in the USB memory.
  - Download data to the USB memory and connect to this unit.

Un-readable song was skipped.
- A copy-protected WMA file has been detected.
  - You can only play back non-copy-protected files.
- A sampling rate/bit rate not supported by the unit is used.
  - Use a sampling rate/bit rate supported by the unit.

BLUETOOTH

Please check BLUETOOTH audio device.
- The BLUETOOTH audio device was not connected correctly.
  - Check the settings for ICS-X7 and the BLUETOOTH audio device and reconnect.

Please check mobile device.
- The mobile phone was not connected correctly.
  - Check the settings for ICS-X7 and the mobile phone and reconnect.

Unable to download phonebook.
- Phonebook failed to read due to mobile phone disconnection, etc.
  - Check the mobile phone connection, and then conduct synchronising and adding again. (See page 36)
- The connected mobile phone does not support synchronising of its phone book.
  - Connect the mobile phone that supports synchronising the phone book, then synchronise again. (See page 36)

Playing back a DRM protected DivX File

Some operations cannot be performed while displaying the following message.

Authorization Error.
This player is not authorized to play this video.
- The version of the DRM protected DivX® File is not supported by this unit.
  - Play the supported DivX® File.

Rental Expired.
- The file being attempted to play has a limited number of viewings. The viewing limit has been reached and can no longer be played on this device. After the message has been displayed, the beginning of the next file will automatically be played back.

This DivX rental has used XX out of YY views.
Continue?
- If the total number of viewings for this file has not been exceeded, the views remaining is displayed.
  - To play back, select **[YES]**. If the next file is to be played back, select **[NO]**.

Do you wish to stop playing rental file?
- While playing back a rental file, “Do you wish to stop playing rental file?” is displayed when the following operations are performed. Selecting **[YES]**, reduces the number of views by 1.
  - Folder Up/Down
  - STOP
  - Search operation
  - Move to the first/last DivX® file by Chapter Up/Down
  - To interrupt the playback, touch **[YES]**, or touch **[NO]** to not interrupt.

Audio format not supported.
- The file being played is a DivX® file with an unsupported audio format, so only the video data is played.
  - Play a DivX® file with a supported audio format.

Video framerate not supported.
- The file being played is a DivX® file with an unsupported frame rate.
  - Play a DivX® file with a supported frame rate.

Video resolution not supported.
- The file being played is a DivX® file with an unsupported resolution.
  - Play a DivX® file with a supported resolution.

Specifications

MONITOR SECTION

Screen Size	7.0"
LCD Type	Transparent type TN LCD
Operation System	TFT active matrix
Number of Picture Elements	1,152,000 pcs. (800 × 3 × 480)
Effective Number of Picture Elements	99% or more
Illumination System	LED

FM TUNER SECTION

Tuning Range	87.5 – 108.0 MHz
Mono Usable Sensitivity	9.3 dBf (0.8 µV/75 ohms)
Alternate Channel Selectivity	80 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

AM TUNER SECTION

Tuning Range	531 – 1,602 kHz
Usable Sensitivity	22.5 µV/27 dBf

USB SECTION

USB requirements	USB 1.1/2.0
Max. Power Consumption	1,000 mA
USB Class	USB (Play From Device)/ USB (Mass Storage Class)
File System	FAT12/16/32
MP3 Decoding	MPEG-1/2 AUDIO Layer-3
WMA Decoding	Windows Media™ Audio
AAC Decoding	AAC-LC format ".m4a" file
Number of Channels	2-Channel (Stereo)
Frequency Response*	5-20,000 Hz (±1 dB)
Total Harmonic Distortion	0.008% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	100 dB
Channel Separation	85 dB (at 1 kHz)

* Frequency response may differ depending on the encoder software/bit rate.

BLUETOOTH SECTION

BLUETOOTH Specification	Bluetooth V2.1+EDR
Output Power	+4 dBm Max. (Power class 2)
Profile	HFP (Hands-Free Profile) OPP (Object Push Profile) PBAP (Phone Book Access Profile) A2DP (Advanced Audio Distribution Profile) AVRCP (Audio/Video Remote Control Profile)

GENERAL

Power Requirement	14.4 V DC (11–16 V allowable)
Operating temperature	-4°F to +140°F (-20°C to + 60°C)
Maximum Power Output	50 W × 4
Output Voltage	2,000 mV/10k ohms
Weight	1.6 kg
Audio output level	
Preout (Front, Rear):	2 V/10k ohms (max.)
Preout (Subwoofer):	2 V/10k ohms (max.)

CHASSIS SIZE

Width	178 mm
Height	100 mm
Depth	159 mm

- *Due to continuous product improvement, specifications and design are subject to change without notice.*
- *The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that there is a possibility that 0.01% of the pixels could be either always ON or OFF.*

Installation and Connections

Before installing or connecting the unit, please read the following and pages 6 to 7 of this manual thoroughly for proper use.

⚠ Warning

MAKE THE CORRECT CONNECTIONS.
Failure to make the proper connections may result in fire or product damage.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.
(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.
Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.
Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, gear lever, brake pedals, etc. can be extremely hazardous.

DO NOT SPLICE INTO ELECTRICAL CABLES.
Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.
When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.
Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

KEEP SMALL OBJECTS SUCH AS SCREWS OUT OF THE REACH OF CHILDREN.
Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR GEARSHIFT.
Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

⚠ Caution

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.
The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.
Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.
Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.
Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

Precautions

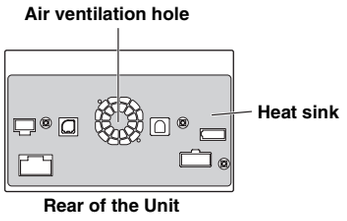
- Be sure to disconnect the cable from the (–) battery post before installing your ICS-X7. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the colour coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the ICS-X7 to the fuse box, make sure the fuse for the intended circuit of the ICS-X7 has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your Alpine dealer.
- The ICS-X7 uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorised Alpine dealer for assistance.
- Be sure to connect the speaker (–) leads to the speaker (–) terminal. Never connect left and right channel speaker cables to each other or to the vehicle body.
- The Display must be completely retracted in the casing when installing. If it is not, problems may occur.
- When installing in automobiles, make sure the Display can open/close without coming in contact with the gear shift.

IMPORTANT
Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number plate is located on the bottom of the unit.

SERIAL NUMBER: _____
INSTALLATION DATE: _____
INSTALLATION TECHNICIAN: _____
PLACE OF PURCHASE: _____

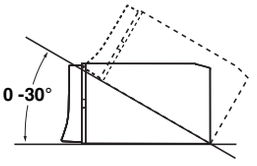
Installation

Caution
Do not block the unit's fan or heat sink, thus preventing air circulation. If blocked, heat will accumulate inside the unit and may cause a fire.



Caution concerning the installation location

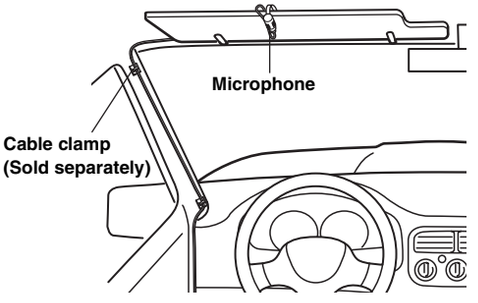
1 Angle of installation
Install at an angle between horizontal and 30°. Note that installing at an angle outside of this range will result in a loss of performance and possibly damage.



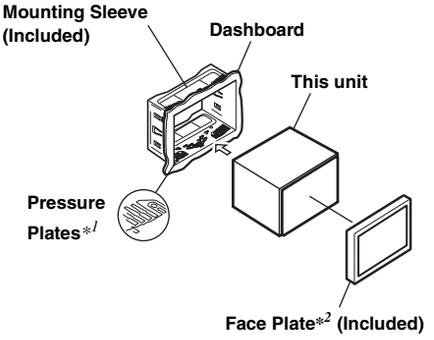
2 Mounting the Microphone.

For safe use, make sure of the following:
- *location is stable and firm.*
- *driver's view and operations are not obstructed.*
- *microphone is located where the driver's voice can be easily picked up (on the sun visor, etc.).*

When you speak into the microphone, you should not have to change your driving posture. This may cause a distraction, taking your attention away from safely driving your vehicle. Carefully consider direction and distance while mounting the microphone. Confirm that the driver's voice can be easily picked up at the selected location.

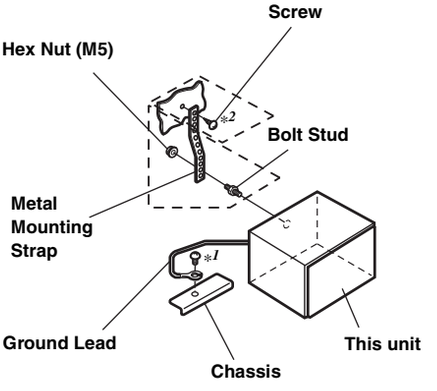


3 Remove the mounting sleeve from the main unit (see "Removal" on page 65).
Slide the unit into the mounting sleeve and secure it.



**1 If the installed mounting sleeve is loose in the dashboard, the pressure plates may be bent slightly to remedy the problem.*
**2 The supplied face plate may be mounted.*

4 Reinforce the head unit with the metal mounting strap (not supplied). Secure the ground lead of the unit to a clean metal spot using a screw (*1) already attached to the vehicle's chassis. Connect all the leads of the ICS-X7 according to details described in the CONNECTION section.

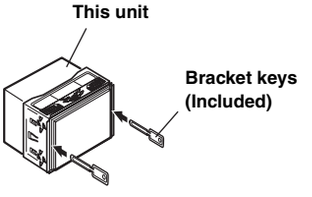


- *For the screw marked "*2," use an appropriate screw for the chosen mounting location.*

5 Slide the ICS-X7 into the dashboard until it clicks. This ensures that the unit is properly locked and will not accidentally come out from the dashboard.

Removal

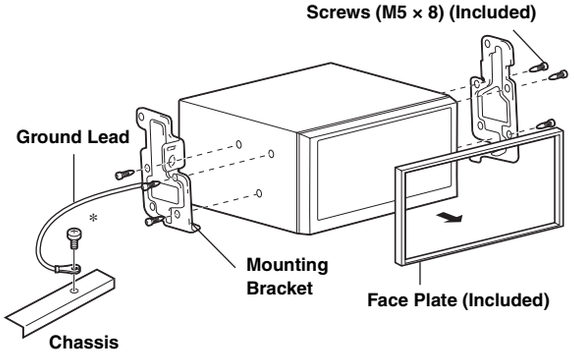
1. Insert the bracket keys into the unit, along the guides on either side. The unit can now be removed from the mounting sleeve.



2. Pull the unit out, keeping it unlocked as you do so.

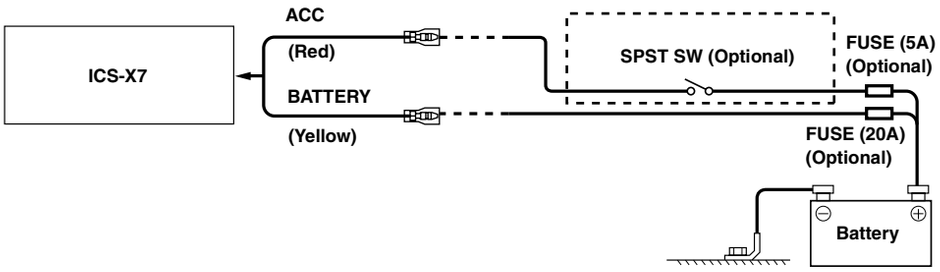
<JAPANESE CAR>

Take the face plate off, and secure the ground lead of the unit to a clean metal spot using a screw (*) already attached to the car's chassis.
Attach the Original Mounting Bracket to each side of the ICS-X7, using the screws supplied with ICS-X7.



Connection Diagram of SPST Switch (sold separately)

(If the ACC power supply is not available)

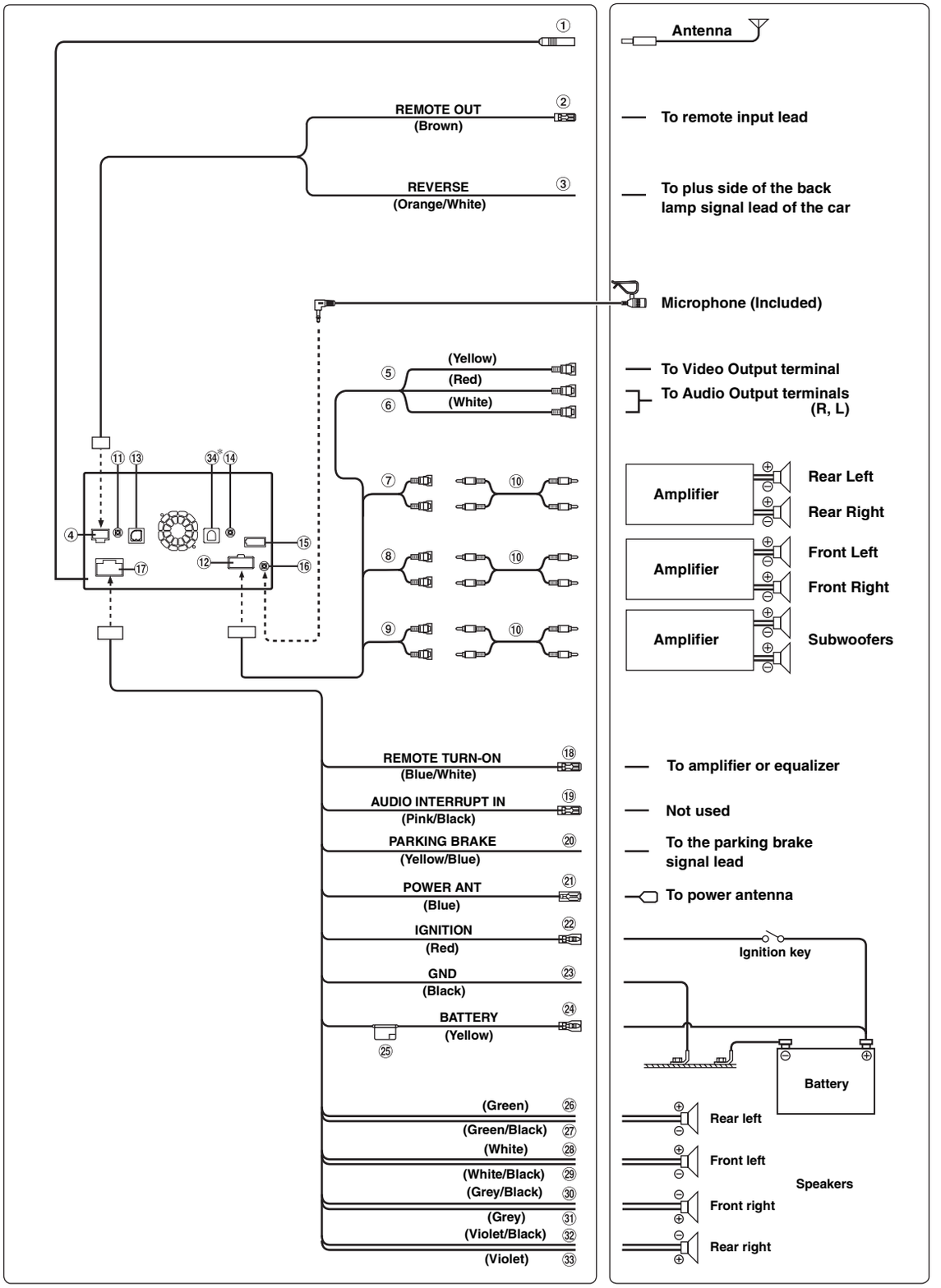


- *If your vehicle has no ACC power supply, add an SPST (Single-Pole, Single-Throw) switch (sold separately) and fuse (sold separately).*
- *The diagram and the fuse amperage shown above are in the case when ICS-X7 is used individually.*
- *If the switched power (ignition) lead of the ICS-X7 is connected directly to the positive (+) post of the vehicle's battery, the ICS-X7 draws some current (several hundred milliamperes) even when its switch is placed in the OFF position, and the battery may be discharged.*

To prevent external noise from entering the audio system.

- Locate the unit and route the leads at least 10 cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors, contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

Connections



* *Australia/New Zealand model only.*

① **Radio Antenna Receptacle**

② **Remote Control Output Lead (Brown)**
Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.

③ **Reverse Lead (Orange/White)**
Connect to the plus side of the car's reverse lamp. This lamp illuminates when the transmission is shifted into reverse (R).
With this lead properly wired, the video picture automatically switches to the rear camera whenever the car is put into reverse (R).

④ **CAMERA Connector**

⑤ **Video Input Connector (AUX INPUT) (Yellow)**
Input the video or camera.

⑥ **Audio Input Connectors (AUX INPUT)**
RED is right and WHITE is left input the audio.

⑦ **Rear Output RCA Connectors**
It can be used as Rear Output RCA Connectors. RED is right and WHITE is left.

⑧ **Front Output RCA Connectors**
It can be used as Front Output RCA Connectors. RED is right and WHITE is left.

⑨ **Subwoofer RCA Connectors**
RED is right and WHITE is left.

⑩ **RCA Extension Cable (sold separately)**

⑪ **Steering Remote Control Interface Connector**
To steering remote control interface box.
For details about connections, consult your nearest Alpine dealer.

⑫ **AUX/PRE OUT Connector**

⑬ **NAVI Connector**
Not used for this unit.

⑭ **iPod VIDEO Input Connector**
Input the iPod/ iPhone video signal or AUX video/audio signal.
- Set "AUX3 In Sel." (page 32) to "iPod Video" when an iPod/iPhone is connected.
- Set "AUX3 In Sel." (page 32) to "AUX3" when AUX video/audio is input.

⑮ **USB Connector**
To USB Memory, iPod/iPhone or Mobile Phone.

⑯ **MIC Input Connector**
To Microphone (Included).

⑰ **Power Supply Connector**

⑱ **Remote Turn-On Lead (Blue/White)**
Connect this lead to the remote turn-on lead of your amplifier or signal processor.

⑲ **Audio Interrupt In Lead (Pink/Black)**
Not used for this unit.

⑳ **Parking Brake Lead (Yellow/Blue)**
Connect this lead to the power supply side of the parking brake switch to transmit the parking brake status signals to the ICS-X7.

㉑ **Power Antenna Lead (Blue)**
Connect this lead to the +B terminal of your power antenna, if applicable.

- *This lead should be used only for controlling the vehicle's power antenna. Do not use this lead to turn on an amplifier or a signal processor, etc.*

㉒ **Switched Power Lead (Ignition) (Red)**
Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.

㉓ **Ground Lead (Black)**
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

㉔ **Battery Lead (Yellow)**
Connect this lead to the positive (+) post of the vehicle's battery.

㉕ **Fuse Holder (10A)**

㉖ **Left Rear (+) Speaker Output Lead (Green)**

㉗ **Left Rear (–) Speaker Output Lead (Green/Black)**

㉘ **Left Front (+) Speaker Output Lead (White)**

㉙ **Left Front (–) Speaker Output Lead (White/Black)**

㉚ **Right Front (–) Speaker Output Lead (Grey/Black)**

㉛ **Right Front (+) Speaker Output Lead (Grey)**

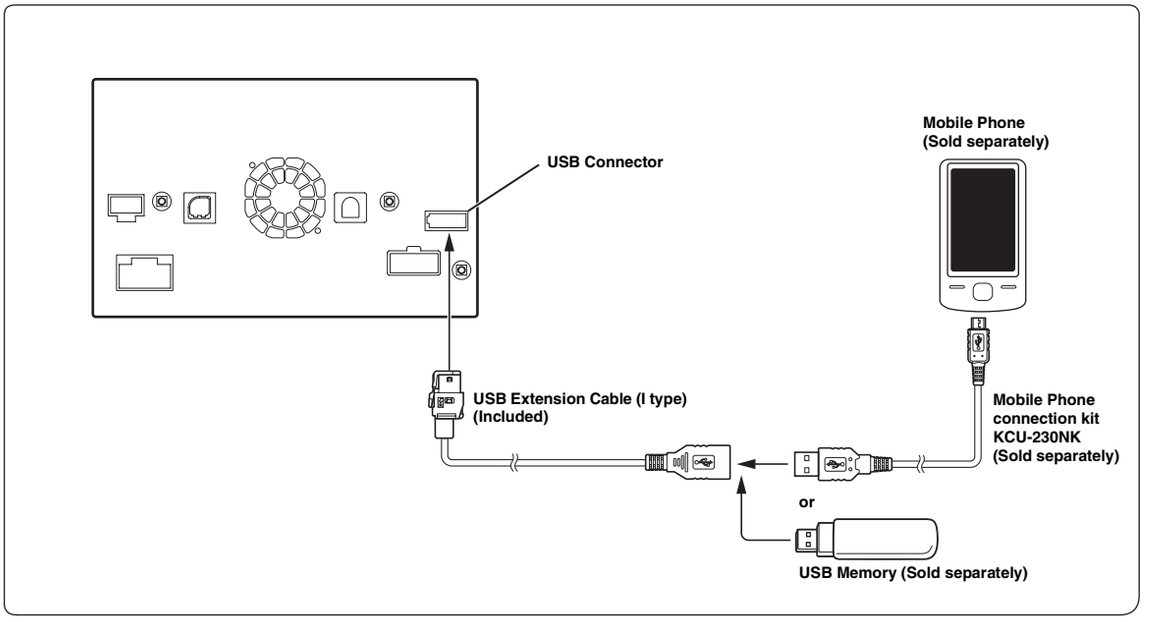
㉜ **Right Rear (–) Speaker Output Lead (Violet/Black)**

㉝ **Right Rear (+) Speaker Output Lead (Violet)**

㉞ **Vehicle Display Interface Connector (Australia/New Zealand model only)**
Outputs Vehicle Display Interface control signals. Connect this to the optional Vehicle Display Interface box.
For details about connections, consult your nearest Alpine dealer.

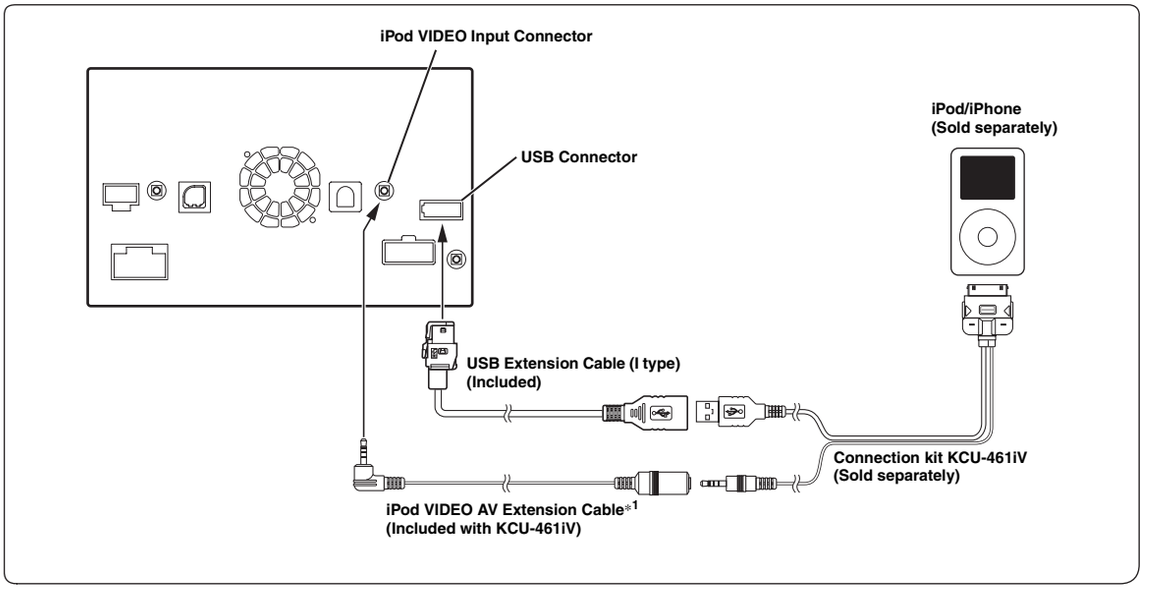
System Example

Connection of a USB Memory or Mobile Phone



- *Do not leave USB Memory, Mobile Phone in a vehicle for a long time. Heat and humidity may damage the USB Memory, Mobile Phone.*
- *To connect an Mobile phone, an optional connection kit KCU-230NK is required.*

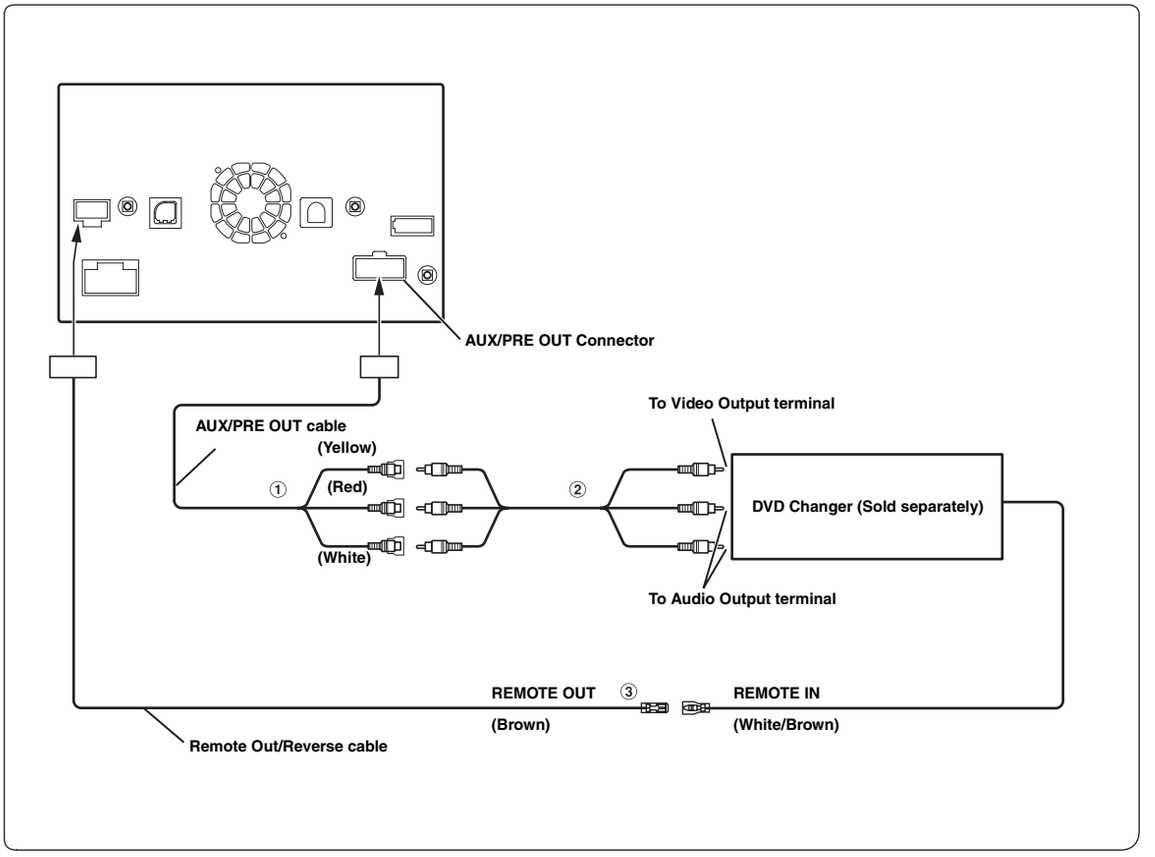
Connection of an iPod/iPhone



**1 If iPod VIDEO is supported, use the iPod VIDEO Extension Cable. Be sure to connect when in the App Direct mode.*

- *Do not leave a iPod/iPhone in a vehicle for a long time. Heat and humidity may damage the iPod/iPhone and you may not be able to play it again.*

Connection of an External device



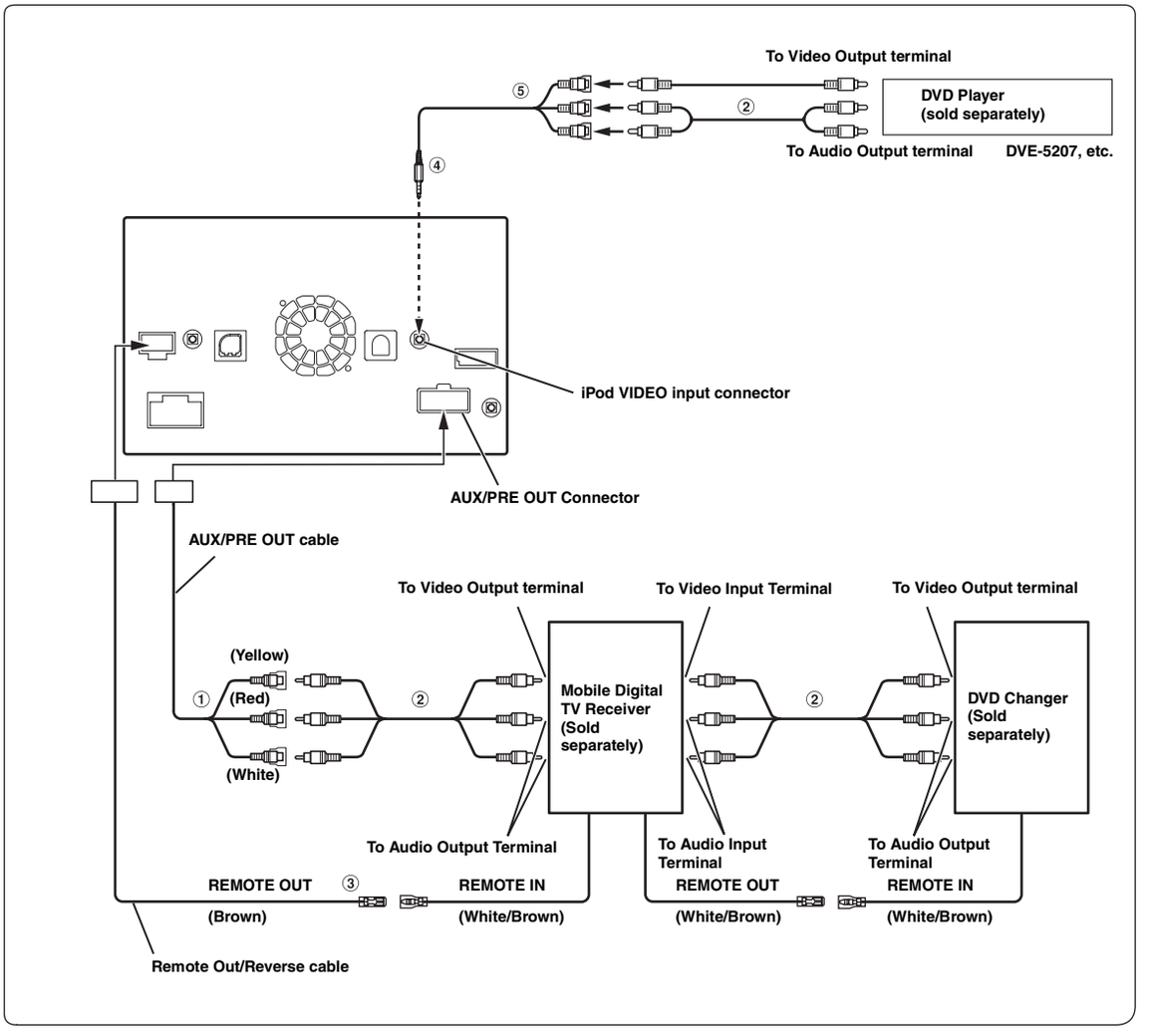
① Video/Audio Input Connectors (AUX INPUT)

② RCA Extension Cable (Sold Separately)

③ Remote Control Output Lead (Brown)
Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.

• *You can change the name of an external device. Refer to "Setting the AUX Mode" (page 31).*

Connection of a Mobile Digital TV Receiver and DVD Changer



① **Video/Audio Input Connectors (AUX INPUT)**

② **RCA Extension Cable (Sold Separately)**

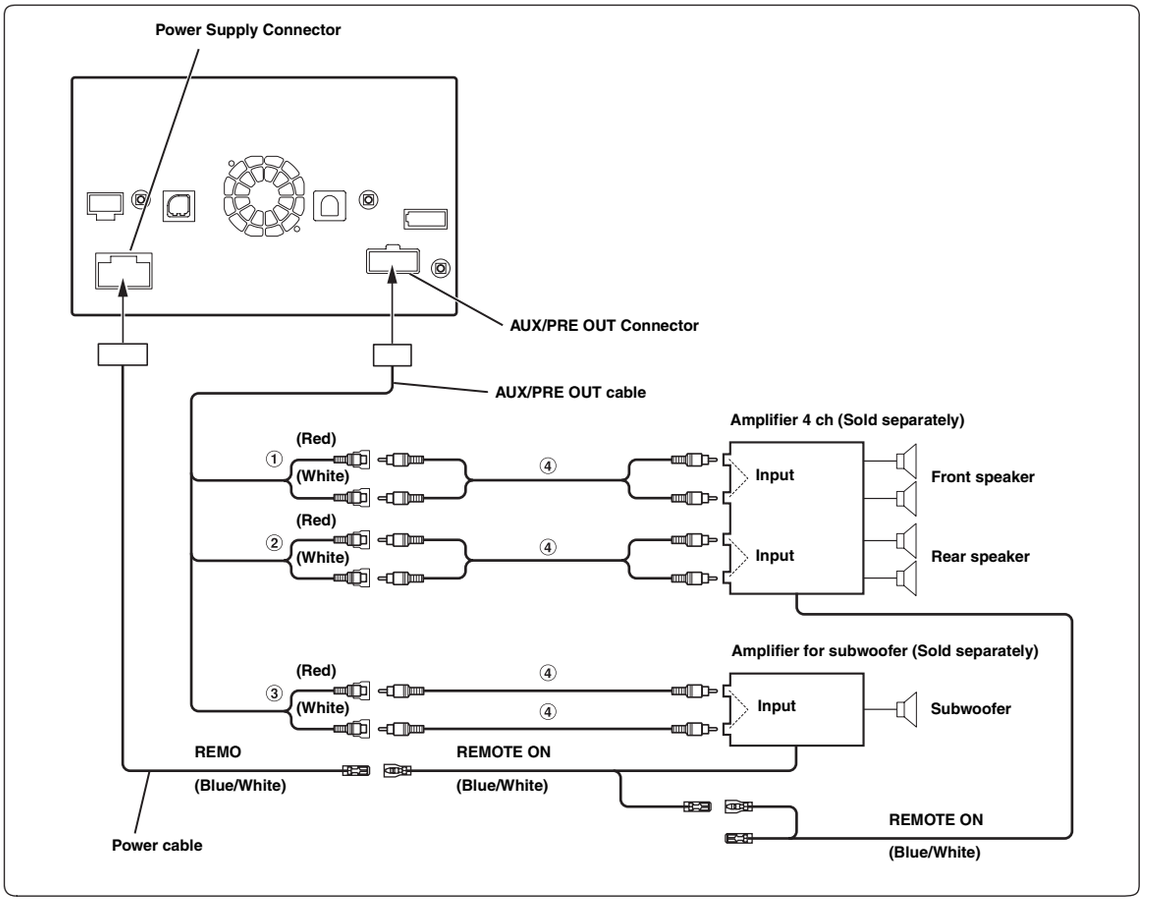
③ **Remote Control Output Lead (Brown)**
Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.

④ **AV/RCA interface cable (4-pole mini AV plug to 3-RCA) (sold separately)**

⑤ **Video/Audio Input Connectors**
YELLOW is for input video, RED is right and WHITE is left input the audio.

- *You can connect one more external input device only when the "Primary Name" is set to "DVB-T." Refer to "Setting the Primary AUX Name" (page 31).*
- *To connect an external input device to the iPod VIDEO connector, set "AUX3 In Sel." to "AUX3." Refer to "Setting the AUX3" (page 32).*

Connection of an External Amplifier



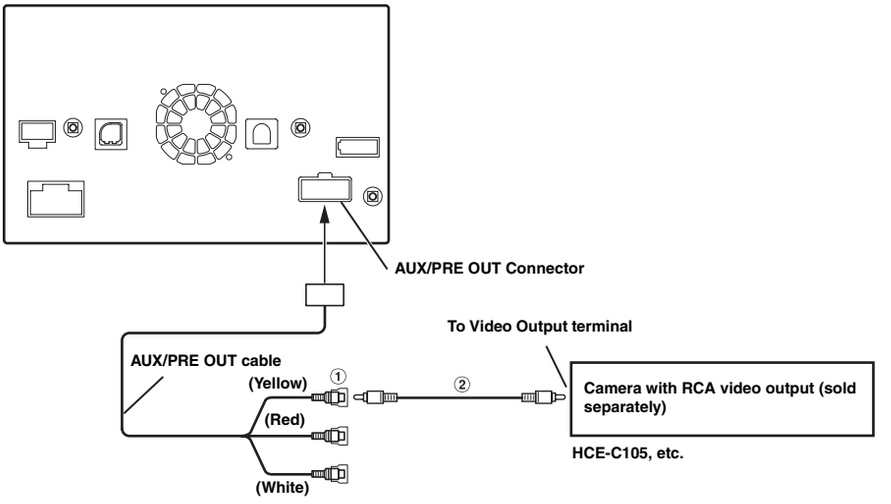
① **Front Output RCA Connectors**
RED is right and WHITE is left.

② **Rear Output RCA Connectors**
RED is right and WHITE is left.

③ **Subwoofer RCA Connector**

④ **RCA Extension Cable (Sold separately)**

Connection of camera



① **CAMERA Input Connector (AUX INPUT)**

② **RCA Extension Cable (sold separately)**

About the Rules of Bluetooth Electromagnetic Radiation Regulation

Country	Rules of Electromagnetic Radiation Regulation
Thailand	This telecommunication equipment conforms to NTC technical requirement.

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